#### STIC-Biot ch/Ch mLib

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From:	<i>,</i>
Sent:	- 1
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Subject	1

Pak, Michael Friday, March 01, 2002 8:59 AM STIC-Biotech/ChemLib 09/276,935 sequence search

Sequence search - 2 month amendment App. #: 09/276,935 Result format: Paper. Title:an orphan nuclear receptor

Please search:

Search commercial and interference database.

**SEQ ID NO:13-14** 

Thanks,

Mike Pak

Michael Pak Art Unit 1646 Mailbox: CM1, Rm. 10C00 Office: CM1, Rm. 10E13 703-305-7038

Michael Pak USPTO Art Unit 1646 CM1; Rm. 10E13 703-305-7038 ::dward Han rechnical Info. Specialist STIC/Biotech :MI 6802 Tei: 305-9203

Searcher:
Phone:
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TYPE OF SEARCH:
NA Sequences:
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Patent Family:
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VENDOR/COST(w	here applic.)
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                      TRILICAMINATION INFORMATION:
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COMPUTER READABLE FORM: 015KOTTO, 1.44 Mb

02110 2804

U.S.A

COMPUTER: THM PS/2 Model 50% or 558X OPERATING SYSTEM: THM P.C. Dos (Version 3.30) SOPTWAKE: WordPerFect (Version 5.0)

CLASSIFICATION: 514
PRIOR APPLICATION DATA:

FILING DATE: APPLICATION NUMBER:

APPLICATION NUMBER: 07/844, 450

February 26, 1992

CURRENT APPLICATION DATA:

US/08/458,586

ACTORNEY/AGENT INFORMATION:

FILLING DATE:

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                                                                                                                                                                                                                                                                                                         Sequence 10, Application US/08458686
                                                                                                                                                                                                                                                       GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            INFORMATION FOR SEQ 1D NO: 10:
                                                                                                                                                                          TITLE OF INVENTION: CAR RECEPTORS AND KELATED TITLE OF INVENTION: MOLECULES AND METHODS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    SEQUENCE CHARACTERISTICS
                                                                                                                            CORRESPONDENCE ADDRESS
                                                                                                                                                       NUMBER OF SEQUENCES:
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                                               STREET: 225 F
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                     Massachusetts
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                                                                                                     Fish & Richardson
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Best Local S
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                                                                                                                                                                                                                                                                                                                                                                                             GENERAL INFORMATION:
APPLICANT: David D.
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INFORMATION FOR SEQ ID No: 10:
SEQUENCE CHARACTERISTICS:
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TELECOMMONICATION INFORMATION:
TELEPHONE: (617) 542-5070
TELEPAX: (617) 542-8906
                                                                                                                               COMPUTER READABLE FORM: MEDIUM TYPE: 3.5" Di
                                                                                                                                                                                                                                                                                                                             TITLE OF INVENTION: CAR RECEPTORS AND RELATITLE OF INVENTION: MOLECULES AND METHODS NUMBER OF SEQUENCES: 10
                                           CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                              CORRESPONDENCE ADDRESS:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          154
                                                      MEDIUM Type: 3.5" Disketto, 1.44 Mb
COMPUTER: IHM PS/2 Model 50% or 558X
OPERATING SYSTEM: IHM P.C. DOS (Version 3.30)
SOFTWARE: WordPerfect (Version 5.0)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            319 LESINEAYGYQIQHIQGESAMMPLLQEI 346
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REGISTRATION NUMBER:
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  FILING DATE:
                        APPLICATION NUMBER:
                                                                                                                                                                                                 COUNTRY: U.S.A
                                                                                                                                                                                                                       STATE: Massachusetts
                                                                                                                                                                                                                                                                                       ADDRESSEE:
                                                                                                                                                                                                                                            IY: Boston
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February 26, 1992
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                                                                                                                                                                                                                                                                                                                                                                             CAR RECEPTORS AND RELATED
                                                                                                                                                                                                                                                                                                                                                                                               Moore et al
                        US/07/843,350C
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                                                                                                                                                                                                                                                                                                                                Patent No.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Query Match 33.4%; Score 731; DB 1; Length 348; Best Local Similarity 40.5%; Pred. No. 1.10-64; Matches 157; Conservative 59; Mismatches 100; Indels
                                                                                                                                                                                                                                                                                                                              Sequence 4, Application US/077377368 Patent No. 5260199
                                                                                                                                                                                                                                                                                                         GENERAL INFORMATION:
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INFORMATION FOR SEQ 1D NO:
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TELECOMMUNICATION INFORMATION:
TELEPHONE: (617) 542-5070
TELEPAX: (617) 542-8906
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   PRIOR APPLICATION DAIA:
APPLICATION NUMBER:
FILING DATE:
                                                                                                                                                                                                                                 APPLICANT: Delinea, Heerte
APPLICANT: Ross, Froy K.
APPLICANT: Prahl, Jean M
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COMPUTER READABLE FORM
                                                                                                                                                   CORRESPONDENCE ADDRESS:
                                                                                                                                                                        TITLE OF INVENTION: Method of Producing TITLE OF INVENTION: 1,25-Dihydroxyvitamin D4 Receptor Protein NUMBER OF SEQUENCES: 6
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                                                                                 STREET: 411 East
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                                        COUNTRY:
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                                                                                                                               ADDRESSEE:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            YVLMOATSLESPORPGVLQHRVVDQLQEQEATTLKSYTECNRPQPAHRFLELKIMAMIJE 399
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     SVWNYKPPADSGGKETESLLPHMADMSFYMFKGT1SFAKVTSYFKDLPTEDOTSLLKGAA 280
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      KCLDAGMRKDM1LSAEALALRRAKQAQRRAQQTPVO-----LSKEQEELIRTLLGAHTK 123
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        VETCHTVI.NTTFCLQTQNFLCGPLRYTTEDGAKVGFQVEFLELLFHFHGTLRKLQLQEFE
                         53202
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                                                                 Wisconsin
                                                                                                        411 East Wisconsin Avenue
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                                        U.S.A.
                                                                                                                                                                                                                                       Prahl, Jean M.
                                                                                                                                                                                                                                                                                     Deluca, Hector F.
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                                                                                                                                 Carl R. Schwartz, Esq.,
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        -----PLMQEL 408
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       NEGRMATION FOR SECTIONS: 4:
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LENGTH: 467 amino acids
TYPE: AMINO ACID
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850 NUMKELIPLVILEVEC 353
                                                                                                                                                                                                                             290 KLVEATODRLSNILOTYTRIKHEPPESHOLYAKMIOKIADLKSLNEEHSKOYKSLSEQPE 349
                                                                                                                                                                                                                                                                                                                                           360 RVVDGUGUGEATILIKSYTECNKEGEABRETELKIMAMLIEF
                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Z GU SQUYKYDV IDVSKAGHTLEL FEFLIKFQVOLKKINIJHEEEHVILIMA I C1 VSPDREGVQDA - 289
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ROR RESYMPTEDITY - AGGEOGETEEPMEKEHYMEKKEQEHEEEYVEMQAISLESPDREGVEQH 359
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               170 LADLVSYSTGKVTGEAKMIDGERDLTSDDGTVLLKSSATEVIMLKSNOSETMDDMSWDCG 229
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             24 CMADMSTYMEKGTISEAKVISYEKOLPIEDOISIJJKGAAAFELCOJJENTVITVENAETGYBYG 302
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         115 TESFSONSSSSSSOLYTTSELDMMERSOFSNEDENSD - DESCRIPTIOESPESMERH 169
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             192 SPEEDAKWSQVKKLLCSLKV
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 134 GTOPTOTYCHITTESHMMIRELMDAQMKTPTTFSHFKNFRLFRVL SSGCELPESIQAP [9]
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    MEDIAM TYPE: Floppy disk
COMPATIEN: SYSTEM: PC baseMS bus
SPERMARE: Policitle Release #1.0, Version #1.25
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REDISTRATION NUMBER: 29,437
REDISTRATION NUMBER: 29,437
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       FILING DATE:
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TILLE: 1,25 dihydroxyvitamin by receptor cDNA
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              74 RIBODERKOACETEKKERRQOQAORILRKOLESSMKKEMIMSDEAVEERRALIKRKKSERT 144
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          DATE: February 1988
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          onery Match 21.6%; Score 472; DB-1; Length 461;
Best Local Similarity 28.9%; Pred. No. 16.98;
Matches 122; Conservative 80; Mismatches 119; Indels 110; Gaps
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NAME: Dolan, Catherine A.
REGISTRATION NUMBER: 46,9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           APPLICANT: Friedman, Eitan
APPLICANT: Holloway, M. Katharine
APPLICANT: Rodan, Gideon
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 MOLECULE TABEL Poptido
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TELECOMMUNICATION INFORMATION:
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APPLICANT: Vogel, Robert
                                            ć
                                                                                   272 TELATISVQETVDFAKQVIMELQIMBEDQIALLKAST FEIMILETARRYNHET - ECTT 328
                                                                                                                                  244
                                                                                                                                                                                                                           7
                                                                                                                                                                                                                                                                     201 SPGGSEAGSOGSGEGEGVOLTAAOELMIQOLVAAOLOCNKRSES:
                                                                                                                                                                                                                                                                                                                                                           143 OCKLEKCKEAGMREGGVLSEEQTRKKK TRKOQQQESQSQSQSPVGPQGSSSSASGPGA 200
429 FLKDFTYSKDDFHRAGLQVEFTNPTFEFSRAMRRUILDDAEYALLTATNTFSADRPNVQE 388
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                                                                                                                                                                                                                                                                                                                                                                                                       96 ACRERKOLESOMKKEMIMSDEAVEEKRALIKKKKSERTGIQ
                                                                                                                                                                                                                                                                                                                                                                                                                                                      B3 CHELCRYCODKASGEHYNVLSCEGOKGFFKRSVVRGGARRYACRGGGLCQMDAFMKKKCQ 142
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                3 GPQTCRVCGDKACGYHENVMCCEGCKGFFRRAMKRNARLRCPFR KGACETTRKTRRQCQ 95
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                                                                                                           ADMSTYNEKGTISEAKVISYFKOLDIEDQISELKGAAFED OEKENIVENAEIGIWEC
                                                                                                                                                                                                                        THEST CATS REEAAKWSQVRKDLYSTKVSTCCTRTETALS VVNVKFTALSCCKTT TSTLITHM 124 +
                                       -CRESSOLID TAGGEOGLILLEDMIKEHYMIKKLOJIHEERYVIMOATSIESPERFGVIO (SE
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126 East Lincoln Avenue
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	ACHLEKCLESOMKKEMIMSDEAVERERRALIKEKKKSERTGTQPLGVQG 142	
	GPQ1CKVCGDKATGYHENVMTCEGCKGEFKRAMKHNAKLRCPFR-KGACEITRKTRRQCQ-95 	Qy 37 GPQ1CRVCGDKATGYHENVMTCI   ::[]:] :: : :: ::    B3 GHELCRVCGDKASGFHYNVLSCI
14;	врs 14	
	Scorp 470: DR 1:	31 6*.
		: HYPOTHETICAL: NO ANTI-SENSE: NO
		; MOLECULE TYPE: peptide
		STRANDEDNESS: single
	ids	ENGIH: 461 amino acids
	2:	SPOIDNCE CHARACTERISTICS:
	- 4283 720	; TELEPHONE: (908) 594-4283 ; TELEFAX: (908) 594-4720
	Z :	TELECOMMUNICATION INFORMATION:
	36,502 FB: 19427	REGISTRATION NUMBER: 36,9
	TON:	; ATTORNEY/AGENT INFORMATION: NAME: Dolan, Catherine A.
		CLASSIFICATION:
	US/08/430, 283	PPLICATION NUMBER: US/08/330
	olease #1.0, Version #1.25	FTWARE: Patentin Release
	PC-DOS/MS-DOS	; COMPUTER: IBM PC compatiin operating SYSTEM: PC-DOS;
	SISK.	MEDIUM TYPE: Floppy disk
		ZIP: 07865-0907
		₹!!
	SOLID WASSING	CITY: Rahway
		2 O
		CORRESPONDENCE ADDRESS:
	THOD FOR FINDING RECEPTOR POTENTIATORS	INVENTION: METHOD
	ciel	Schmidt, Azr
	) Jane	
	Katharine	APPLICANT: Holloway, M. Katharine
	ltan	; GENERAL INFORMATION: ; APPLICANT: Friedman, Eitan
		79518
	US/08340283	pplication
		Db 449 LPPLLSETWDV 459
		Oy 402 -1PLMQELEGI 411
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; ANTI-SENSE: NO
US-08-646-248-2
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APPLICANT: Friedman, Eitan
APPLICANT: Holioway, M. Katharine
APPLICANT: Holioway, M. Katharine
APPLICANT: Rodan, Gideon
APPLICANT: Schmidt, Azriel
APPLICANT: Schmidt, Azriel
APPLICANT: Schmidt, Azriel
APPLICANT: Wowel, Robert
TITLE OF INVENTIAN: METHOD FOR FINDING RECEPTOR POTENTIATORS
NUMBER OF SEQUENCES: 5
                                                                                                                                                                                                                                            APPLICATION NUMBER: 08/340,283
PILLING DATE: 27-001-1994
AFTOURNEY JACKET INFORMATION:
NAME: Dolan, Catherine A.
REGISTRATION NUMBER: 36,502
REFERENCE/DOCKET NUMBER: 19327
TELECOMMUNICATION INFORMATION:
TELEPHONE: (948) 594-4283
                                                                                                                                                                                                    TELEFAX: (908) 594-4720 INFURMATION FOR SEQ ID NO: 2:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: 1HM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
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APPLICATION NUMBER: US,
FILING DATE: 14-MAY-19
                                                             TOPOLOGY: linear
MOLECULE TYPE: peptide
                                                                                                                                                  SEQUENCE CHARACTERISTICS:
LENGTH: 461 amino acids
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PRIOR APPLICATION DATA:
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                                        HYPOTHETICAL:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      389 PGRVEALQQPYVEALLSYTRIKRPQDQLRFPRMLMKLVSLKTLSSVHSEQVFALKLQDKK 448
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    STREET: 126 |
CITY: Rahway
                                                                                                          TYPE: amino acid
STRANDEDNESS: single
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INFORMATION FOR SEC ID NO:
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APPLICANT:
APPLICANT:
APPLICANT:
                                                                                                                            PREFERENCE (1802) 554 (1809) 10427 FCT TELEFORMMUNECALION INFORMATION:
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APPLICANT: Schmidt, Azriel
APPLICANT: Vogel, Robert
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                MEDIUM TYPE: Floppy disk

computer: HM PC computeble

oberkating system: PC bus/MS-DUS

sociumake: Patentin kelouso #1.0, Version #1.25

CURRENT APPLICATION DATA:
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LENGTH: 461 amino acids
                                                                                                                                                                                                                                                                                                                                                                 APPLIFANJ: Friedman, Eitan
APPLIFANJ: Holloway, M. Katharine
APPLIFANJ: Kodan, Glacen
APPLIFANJ: Seimidt, Azriel
APPLIFANJ: Voqel, Kabert
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    MOLECULE TYPE: poptide
HYPOTHETICAL: NO
ANIT-SENSE: NO
                                                                                                              MEDIUM LEPROBLE FORM
                                                                                                                                                                                                                                                                          ADDRESSEE: Morck & Co.,
                                                                                                                                                                                                                                                                                                                      NUMBER OF SEQUENCES:
                                                                                                                                                                                                                                                                                                                                                TITLE OF INVENTION:
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                                                                                                                                                                                                                          STREET: 126 F
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STKANDEDNESS: single
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                                                                                                                                                                                 COUNTRY:
APPLICATION NUMBER: PCT/US95/13931
                                                                                                                                                                                                            STATE:
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CLASSIFICATION:

FILING DATE:

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                                                                                                                                                                                                                                                                                              RESULT 11
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MOLECULE TYPE: peptide
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NAME: Quadilato, Carol S.
REGISTRATION NUMBER: 35,330
REPERENCE/DOCKET NUMBER: 19316 PCT
TELECOMMENICATION INFORMATION:
                                                                                                                   APPLICANT: LIAM, SHARTSHIM
APPLICANT: SONG, CHING
FIFLE OF INVENTION: UBLUUTIOUS NUCLEAR RECEPTOR:
FIFLE OF INVENTION: COMPOSITIONS AND METHODS
                                                                        NUMBER OF SEQUENCES:
CORRESPONDENCE ADDRESS
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STREET: P.O. .
CITY: Houston
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                               ADDRESSEE: Arnold, White a Durkee STREET: P.O. Box 4443
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28.3%; Pred. No. 1e-38;
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                                                                                                                                                    RESULT 12
US-08-372-652-3
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                                                                                                        Sequence 3, Application US/08372652 Patent No. 5932699
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                                                             GENERAL INFORMATION:
APPLICANT: Moore, David
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MEDIUM TYPE: Floppy disk
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REFERENCE/DOCKET NUMBER: ARCD154
TELECOMMUNICATION INFORMATION:
TELEPHONE: (512) 418-4000
TPITERAY. 7717
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ATTORNEY/AGENT INFORMATION: NAME: KITCHELL, BARBARA
APPLICANT: See], Wondi
APPLICANT: Choi, Hueng-Sik
TITLE OF INVENTION: RETINOID X RECEPTOR-INTERACTING
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TELEFAX: 79-0924
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            APPLICATION NUMBER: FILING DATE: 18-NOV
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ZIP: 77210-4433
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    y Match 21.5%; Score 470; DB 1: Length 460:
Local Similarity 28.3%; Pred. No. 1.6e-38;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                SOFTWARE:
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                                                                                                                                                                                                                                                                                                                               PGRVEALQQPTYVEALLSYTRYKRPQDQLKFPRMLMKLVSLRTLSSVHSEQVFALKLQDKK 447
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                                                                                                                                                                                                                                                                                                                                                                        HRVVDQLQEQEATILKSYTEONRPQPAHKE - - LELKTMAMLT - - - - - - - EFA
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GENERAL INFORMATION:
APPLICANT: Meore, David
APPLICANT: Sool, Wood
APPLICANT: Shoi, Buend Sik
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INFORMATION FOR SEQ ID NO: 3:
SEQUENCE CHARACTERISTICS:
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computer: IHM PC computable
cerrating system: PC-Dos/MS Dos
SOFTWARE: Patentin Release #1.0, Version #1.40
CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          APPLICATION NUMBER: 08/3
FILING DATE: 18-JAN-1995
ATTORNEY/AGENT INFORMATION:
NAME: Clark, Foul T.
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TELEPHONE: 617/542-5070
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320 YSKIDEBRAGLOVEFINETFEFSKAMRRIGIJDDAFYALLTAINTESADRIPNVOEFSRVEA 329
                                                                                    263 SYQETYDEAKQYPGELQLGREDQLALLKASTLEIMCLQTARRYNHEF - ECTTPLKGET 313
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FILING DATE:
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CIIY: Boston
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"TELEPHONE: 017/542-8906
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                                                                                                                                                                                                                                                                                                                                                                                                 96 ACRURKCLESGMKKEMIMSDEAVEERRALIKRKKSER:
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                                         YOLED TAGGEQQUILLEPMLKEHYMLKKLQLHEEEFYVLMQATSLESPDKFGVLQHKVVDQ 464
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13-JAN-1995
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TOPOLUCGY: linear
HOLDCOLE TYPE: protein
US-08-776-844 2
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                                                                                                                                                                                                                                        Matches 119; Conservative
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Best Local Similarity
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MEDIUM TYPE: Diskott
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APPLICANT: GUSIAFSSO, IAN
TITLE OF INVENTION: OR-1 ON ORPHAN RECEPTOR BELONGING
TITLE OF INVENTION: TO THE NUCLEAR RECEPTOR FAMILY
NUMBER OF SEQUENCES: 11
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TELECOMMUNICATION INFORMATION:
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                                       139 ----GVQGLTEEQRMMIRELMDAQMKTEDITESHEKNERLEGVISSGCELPESLQA 190
                                                                           134 LCHLRKCKEAGMREGCVLSEBQ1RKKKIQKQQQQPPPPFTEPASGSSARPAASPGTSEAS 193
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            CLASSIFICATION: 536
QUAR APPLICATION: 536
194 SUGSGEGEGIQ-LTAAQELMIQQLVAAQLQCNKKSFS-----
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STATE: DC
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               NAME: Kagan, Sarah A
REGISTRATION NUMBER: 32141
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amino acid
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                                                                                                                                         Query Match 20.9%; Score 457; DH 1; Length 44%; Best Local Similarity 27.8%; Pred. No. 3e-37; Matches 118; Conservative 78; Mismatches 126; Indels 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Sequence 4, Application US/08342411A Patent No. 5639616
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     GENERAL INFORMATION:
APPLICANT: LIAO, Shutsung
APPLICANT: SONG, Ching
                                                                                                                                                                                                                                                                                                                                                                                              INFORMATION FOR SEQ ID NO: 4:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: 1BM PC compatible
OPERATION SYSTEM: PC-DOS/MS-DOS
SOPTWARE: Patentin Release #1.0, Version
CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                    SEQUENCE CHARACTERISTICS:
LENGTH: 443 amino acid
TYPE: amino acid
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REFERENCE/DOCKET NUMBER: ARGO154
LELECOMMUNICATION INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                TITLE OF INVENTION: URIQUITOUS NUCLEAR RECEPTOR: TITLE OF INVENTION: COMPOSITIONS AND METHODS NUMBER OF SEQUENCES: 38
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
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                                                                                                                                                                                                                                                                                                                                                                                                                     TELEPHONE: (512) 418-3000
TELEFAX: (713) 789-2679
TELEX: 79-0924
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ZIP: 77210-4433
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    APPLICATION NUMBER: US/08/342,411A
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ADDRESSEE: Arnold, White & Durkee STREET: P.C. Box 4433
     96
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       CITY: Houston
                                                71 GHELCRYCGDKASGFHYNVLSCEGCKGFFRSVVHGGAGRYACRGSGTCOMDAFMRRKCO 140
                                                                                                37 GPQTCRVCGDKATGYHFNVMTCEGCKGFFRKAMKRNARLRCPFR-KGACETTRKTRKQCQ 95
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  ACRERKCLESGMKKEMIMSDEAVEERRALIKKKKSERTG1@PL-----
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Database
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Maximum DB seq length: 2000000000
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Sequence:
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    A_Geneseq_1101:*
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1 LEVRPKESWNHAGEVHOEDT.....AMLTEFATPLMGELFGITGS
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Listing first 45 summaries
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/SIDs2/qcqdata/qeneseq/geneseqp/AA1999.DAT:*
/SIDs2/qcqdata/qeneseq/geneseqp/AA2000.DAT:*
/SIDs2/qcqdata/geneseq/qeneseqp/AA2001.DAT:*
                                                                                              /SID82/gcqdata/qeneseq/qeneseqp/AA1994.DAT:*
/SID82/qcqdata/qeneseq/qeneseqp/AA1995.DAT:*
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                                                                                                                                                                                            /SIDS2/qcgdata/geneseq/qcneseqp/AA1992.DAF:*/SIDS2/qcgdata/geneseq/qcneseqp/AA1993.DAF:*
                                                                        /SIDS2/qcqdata/qeneseq/qeneseqp/AA1998.DAI:*
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

# SUMMARIES

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2049	2165	2167	2167	2167	2167	2167	2167	2167	2167	2187	score
93.7	99.0	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	100.0	Query Match
434	437	474	473	473	473	466	457	457	434	414	Query Match Length DB
20	20	20	20	20	20	20	20	20	20	20	
AAY21799	AAY09515	AAY09516	AAY15933	AAY15936	AAY25411	AAY25410	AAY15932	AAY16035	AAY15931	AAY42691	ID
Human steroid and	Human vitamin D re	Human vitamin D re	A human intranucle	A human intranucle	Human nNR7-1 prote	Human nNR7 partial	A human intranucle	A human intranucle	A human intranucle	Human pregnane X r	Description

Claim 4; Fig 1A-D; 69pp; English.

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AAW25035	AAR74739	AAR94169	AAR99736	AAR96244	AAY32374	AAW25034	AAR58140	AAR97982	AAK52980	AAR74738	AAG63172	AAR4 3656	AAW94622	AAW 17261	AAG63171	AAW43903	AAY17872	AAG63174	AAR41346	AAG6 3170	AAW93902	AAW32536	AAB84255	AAY09035	AAY09036	ААН84254	AAY04064	AAW68156	AAW47509	AAW94623	AAR98521	AAY42684	AAB84417
nt in it ous	Kat ubiquitous nuc	oR-1 orphan recept	Retinoid X recepto	Human tootal lung	Mouse CNREH 1. Mu	Buman ubiquitous n	NER receptor poten	Human steroid rece	Human recombinant	Human ubiquitous n	Amino acid sequenc	Rat vitamin D rece	Rat vitamin D rece	Rat vitamin U rece	Amino acid sequence	Mouse CAR receptor		Amino acid sequenc	Human CAR receptor	Amino acid sequenc	Human CAR receptor	Constitutively act			Human vitamin D re			Human vitamin b re	Rat vitamin D rece	Rat vitamin D rece	Xemopus orphan rec	Hist-prequane X re	Amino acid sequenc

## ALIGNMENTS

AAY42691 RESULT

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AAY42691 standard: Protein: 414 AA

AAY42691;

New human pregnane X receptor, used to identify specific modulators and agents that induce expression of cytochrome P-450 mono-oxygenase . W09948915-A1. Human; nuclear receptor; prequame x receptor; PXR; CYP; CYP4A4; cytochrome P-450 mono-oxygenase; drug interaction; hPXR. WPI: 1999-601202/51. N-PSDB: AAZ07997. (GLAX ) GLAXO GROUP LTD. Homo sapiens 17-JAN-2000 (first entry) Kliewer SA, Willson 27-MAR-1998; 26-MAR-1999; 30-SEP-1999. Human pregname X receptor (hPXR). 9808-0079593 99WO-US06737.

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DESHLT ANY 155 81 ANY 155 ANY 155
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WP1, 1999 (50330/30
                                                                     TALL CONTRACT NAMED ( ) INC.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Claim 1; Fig 3; Supp; English.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                        This invention describes the isolation of the novel human nuclear receptors nNR7 or nNR7 i. The nNR7 and nNR7 l proteins are useful in the identification of downstream target genes and ligands regulating its activity. The nuclear receptor is involved in the regulation of in vivo cell proliferation and/or cell development, the nNR7 and nNR7 l polynnelectides, expression vectors and host cells are useful tor the
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                       local Similarity 95.4 hes 414; Conservative
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                                                                                                                   The nucleic acid sequence was isolated from a human adult cDNA library using a swellfish ANO23 derived probe. The protein can be used for the development of drugs and diagnosis and treatment
                                                                                                                                                                            Claim 2: Page 17-19; 38pp; Japanese
                                                                                                                                                                                                    New intranuclear receptor protein - useful for diagnosis and treatment of disease
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anorexia. Tipoprofein detects, hyperlipidaemia, hypercholesterolaemia or
hyperlipoprofeinaemia and esteoporosis, rheumatoid arthritis, benign and
maliqua tumours, hyperprofiterative skin disorders or hyperthyroidism.
                                                                                                                                                   polypeptide. Human VDBK polypeptides and substances which after VDKK signal translated on, can be used for treating metabolic, proliferative or inclammatory conditions. They can be used in the manufacture of a medicament for treating the following conditions: obesity, diabetes,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                      New vitamin b receptor related (VDRR) polypoptides, useful for
freeting obesity, diabetes, anorexia and rheumateid arthritis
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     WIDSTSTA AL.
Nucleic acid vectors encoding for expression of a VDRR polypeptide can
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hyperproliferative skin disorder; hyperthyroidism.
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                                                                                                                                                    Home samens
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                                                                                                    W09919354-A1
                                                                                                                                                                                                                                                                                           Human: viramin b receptor related protein: VDRR; obesity: diabetes:
                                                                                                                                                                                                                                                                                                                                                Buman vitamin D receptor related damma protein
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1 7005-1998;
                                               22-APR 1999.
                                                                                                                                                                                                            hyperproliferative
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                                                                                                                                                                                                                                                                 anorexia; rhoumatoid arthritis; lipoprotein detect; hyperlipidaemia;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          by introducing them into a mammal. The introduced nucleic acid is then capable of transforming a cell in vice and then polypeptide is expressed. A substance aftering VPRR signal transduction, such as an adomist or antagonist can be used for the manufacture of a medicament for treating
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          maliqu cumours, hyperproliferative skin disorders or hyperthyroidism. Nucleic acid vectors encoding for expression of a VDRR polypeptide ca
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         or inflammatory conditions. They can be used in the manufacture of a medicament for treating the following conditions: obesity, diabetes,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  The present sequence is a human vitamin D receptor related (VDRR) polypeptide. Human VDRR polypeptides and substances which affect VDRR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                31-MAR-1998;
14-OCT-1997;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     anorexia, lipoprotein defects, hyperlipidaemia, hypercholesterolaemia or
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Claim 19; Page 19-20; 35pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               treating obesity, diabetes, anorexia
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    New vitamin D receptor related (VDRR) polypeptides, useful for
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                                        401 ATPLMOELFGITGS 414
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atplmgeltgitgs 444
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978E-0003745
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1; Mismatches 0; Indels 20
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                                                                                                                                an agonist is used where endogenous steroid levels are excessive (e.g. cushing syndrome; virilism and hirsuitsm in women; polycystic ovarian disease; I] beta, 17- or 21-hydroxlase deficiency; a beta-hydroxysteroid dehydrogenase deficiency, or breast, colorectal or prostatic cancer).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Misc-difference 227
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Human steroid and xenobiotic receptor (SXR);
              antagonist. The present
                                   are used in immunohistochemical testind for studying distribution/
expression density of SXR, also for diagnosis and therapeutically as
                                                                                         while antagonists are used where endogenous steroid levels are too low Cells that express SXR are used to identify compounds likely to be
                                                                                                                                                                                                               (treated with Vitamin K), or to slow metabolism of therapoutic steroids Also, modulating endogenous SXK is used to treat disease, particularly
                                                                                                                                                                                                                                                         breast cancer (treated with tamoxifen, raloxiten etc.) or osteoporosis
                                                                                                                                                                                                                                                                         reduce steroid toxicity in subjects being freated with steroids, e.a. in cases of tuberculosis (treated with ritampin and related compounds).
                                                                                                                                                                                                                                                                                                                   steroids particularly phytoestrogens or calcium-channel blockers, to
                                                                                                                                                                                                                                                                                                                                        circulation. (Ant)agonists of SXR are used to regulate metabolism of
                                                                                                                                                                                                                                                                                                                                                      steroids, and thus affects metabolism. SXR is a broad specificity, affinity receptor for reducing excessive levels of steroids in the
                                                                                                                                                                                                                                                                                                                                                                                           transcription through response elements present in steroid-inducible P450 genes, in response to a wide variety of natural and synthetic steroid hormones and (iv) is prominently expressed in liver and intestine. SXK regulates expression of catabolic enzymes, in response to many different
                                                                                                                                                                                                                                                                                                                                                                                                                                                                               SXR (steroid and xenobiotic receptor). SXR (i) forms a heterodimer with retinoid X receptor (RXR). (ii) binds to a direct or inverted repeat response element motif based on the half-site AGTTCA, (iii) activates
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Claim
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      their toxicity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        New steroid and xenobiotic receptor, used to identify modulators controlling metabolism of steroids and xenobiotics, e.g. reducing
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    N-PSDB: AAX89080
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Blumberq B,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           09-JAN-1998;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               breast cancer; osteoporosis; Cushing syndrome; virilism; hirsutism;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 retinoid X receptor: P450 gene; steroid hormone; steroid metabolism; phytoestrogen; calcium-channel blocker; steroid toxicity; tuberculosis;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Nuclear receptor; SXR;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      14-SEP-1999 (first entry)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       AAY21799 standard; Protein; 434
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       The invention relates to a novel nuclear receptor polypeptide.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    (SALK ) SALK INST BIOLOGICAL STUDIES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 08-JAN-1999;
                                                                          involved in undestrable drug interactions. Antibodies specific for
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              sequence represents
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                                                                                                                                     (SALK ) SALK INST BIOLOGICAL SIMPLES
                                                                                                                                                                                                                                                                                                                      08 DEC 2000; 2000WO DS37474.
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                                                                                                                                                                                                                                  35,641 JOHN 618
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RESULT 13
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Hest focal Similarity 91.2%; Frod. No. 4.16 195;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     useful for freeling a wide variety of conditions such as Cushing's syndrome, virulism and hirsutism, androgen excess due to polycystic ovarian syndrome and enzymatic detects which leads to accumulation of steroids, resulting in hypertension and abortant development of secondary sexual characteristics in both sexes. Transactic animals which express human SXR serve as models for human response to various agents which potentially impact P450 dependent metabolic processes.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  binds to a direct or inverted repeat response element motif based on
the half site AGTECA. SXR is useful for identifying compounds which are
agonists or which activate the receptor. The compounds identified are
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Disclosure; Fig 1A: 64pp; English
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xemobiotic compounds and/or steroids and whose modulators are useful
for modulating metabolism of steroid or xemobiotic compounds
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            steroid hormones and prominently expressed in liver and intestine. SXR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    activating transcription through response elements found in steroid inducible P450 genes in response to a variety of natural and synthetic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     capable of forming a heterodimer with retinoid X receptor (RXR),
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              termed steroid and xenoblotic receptor (SXR). The SXR polypoptide is
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Best Local Similarity
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Antibodies raised against hPXR can be used for determination and purification of hPXR. The present sequence represents a histiding
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Example 6; Page 37; 69pp; English.
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312 gitgs 316
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                                                                                                                                                                                                        370 AITLKSYIECNRPOPAHRFLFLKIMAMLTE------
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           190 APSREEAAKWSQVKKDLCSLKVSLQLRGEDGSVWNYKPPADSGGKETFSLLPHMADMSTY 249
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    72 apsreeaakwsqvrkdles1kvs1q1rgedgsvwnykppadsggkeifs11phmadmsty 131
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               12 sertqtqplqvqqlteeqrmmirelmdaqmktfdftfshfknfrlpqvlssgcelpeslq 71
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  9808-0079593
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93.4%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Score 1463; DB 20; Length 316; Pred. No. 4e-137;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      sequence
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Best Local :
                                                                                                                                                                                                                                                                          Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                             the presence of hydroxy, mercapto or amino benzoate(s) and as regularing the transcription of associated gene(s). It shows 7.% identity in the DNA binding domain, and 42% identity in the liband binding domain, to the human vitamin Direceptor. Recombinant XeW 6
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   DNA encoding receptor polypeptide responsive to hydroxy, mercapto or amino benzoate(s) - useful to regulate gene transcription
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Domain
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V
                                                                                                                                                                                                                                                                                                                                                                                           or therapeutic appln.
                                                                                                                                                                                                                                                                                                                                                                                                                             XOR-6 has been isolated.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Xenopus orphan receptor 6 (XOR-6) (AAK98521) is a new member of the steroid receptor superfamily, characterised as being responsive to
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Claim 4; Page 27-28: 42pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Blumberg B, Evans RM,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           16-JAN-1996;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               hydroxybenzoate; mercaptobenzoate; aminobenzoate
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     AAR98521 standard; Protein; 386 AA
                                                                                                                                                                                                                                                                                                                                                            Sequence
                                                                                                                                                                                                                                                                                                                                                                                                             regulate gene transcription or to raise autibodies of diagnostic
                                                                                                                                                                                                                                                                                                                                                                                                                                                 can be expressed in animal cells; a cDNA clone (AAT36499) coding for
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      N-PSDB; AAT36499
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        WPI; 1996-354546/35.
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 172
                                   197
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                                                                                                                                                                      78
                                                                                                                                                                                                     14 eeeedasnscqtqededdqdpkicracqdratqyhinamtceqckqffrravkrnlrlsc 74
                                                                                                                                                                                                                                       18 EDTESVPGKFSVNADEFVGGPQ1CRVCGDKATGYHFNVMTCEGCKGFFKKAMKRNARLRC 77
                                                                                                                                                                                                                                                                                       Local Similarity
                                                                                                                                                                      PERKGACETTRKTRROCOACRIRKCLESGMKKEM1MSDEAVEERRALIKRK-KSERTGTO 136
                                   AKWSÓVRKOLOSLKVSLOLRGEDGSVWNYKPPADSGGKETFSLLPHMADMSTYMFKOTTS 256
                                                                 ppga-sltpegghtltglvgahtkttdtnfffsknfr--
                                                                                                  PLGVQGLTEEQRMMIRELMDAQMKTEDTTESHEKNERLEGVLSSGCELFESLQAPSREEA 196
                                                                                                                                                                                                                                                                                                                                                             386 AA;
                                                                                                                                                                                                                                                                       41.6%; Score 910.5; DB 17; Length 385; ilarity 46.2%; Pred. No. 5.1e-82; Conservative 55; Mismatches 100; Indels 69;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    (first entry)
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                                                                                                                    guery Match (44.8%) Score 762; DB 20; Length 423; Hest Local Similarity (40.0%) Pred. No. 3.5e 67; Matches (44) Conservative 70; Mismatches (28) Indels (4
                                                                                                                                                                                                                                                                                                                            The present invention describes rat vitamin D receptor (VDR) isotorm protein VDR. The present sequence represents rat VDRC, vDRC differs from the canonical torm of VDR (VDRC) by lacking the animo acid sequence encoded by excurs, but instead substitutes a short sequence (GDE) described by excurs, but instead substitutes a short sequence (GDE) described by the 5 -end of intron B. VDRL has a dominant meditive effect on the vitamin D signalling pathway. The isotopic perfect can be used to determining bone density,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       denotor vitamin b receptor isotorm protein which blocks vitamin b signal pathway—and production of recombinant isotorm protein using it, by hope density assay and for screening compounds for vitamin b
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Example 1: Fig 1: 47pp: Japanese.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Vitamin to receptor: VDR; bone density; retinoic acid derivative;
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                                                                                                                                                                                                                                                                                     and for the screening of compounds (e.g. steroids and retinoic acid
berivatives) for vitamin b activity (e.g. as home calcium regulators,
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           steroid; base calcium regulator; immunosuppressant; anticancer.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                29 APR 1969 (thist entry)
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                                                                                                                                                                                                                                                                    immunosuppressants or anticancer agents).
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98 KLRKOLESOMKKEMIMSDEAVBERRALIKRKKSERTOTOPLOVOGLIEEQRMMIRELMDA 197
                                      priegvegdratglhtmamteegekgttrismkrkalftept møderitkdmishegae 79
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                                                 584 PARRELELKIMAMIJEE: -
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                                                                                                                    4.24 LKFHYMLKKLQLHEEEXYLMQALSLESFORFGYLQHRVVI0-3-QEQFAHLLKSYLFG'NRFQ
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949.887 Million cell updates/sec BLOSUM62 Gapop 10.0 , Gapext 0.5 US-09-276-935B 14 2187 1 LEVRPKESWNHADFVHCED1... 219241 seqs, 76174552 residues Gondore version 4.5 Copyright (c) 1993 - 2000 Compugen Ltd. .....AMLTEFATPLMQELFGITGS 414 219241

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

### SUMMARIES

29 406 18.6	28 406.5 18.6	27 411 18.8	26 411.5 18.8	25 413.5 18.9	24 417 19.1	23 417 19.1	22 417 19.1	21 419 19.2	0	424 1			16 426 19.5	15 456.5 20.9	14 461 21.1	13   461.5 21.1	463	11 472 21.6	10 731 33.4	9 748.5 34.2	8 750 44.3	7 750 44.3	6 751.5 34.5	5 762 34.8	4 768.5 35.1	3 771 35.3	2 922.5 42.2	1 922.5 42.2	No. Score Match Length	Result Query	· osc
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thyroid hormone re	S06410	0 2	4-	17.5	382	Ü
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retinole acid rec	S13512	5	4.	17.6	184	ند
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retinoic acid rece	A41977	7 6	4.5	17.7	3.87	0
retinoic acid rece	S02827	8 2	44	17.7	387	9
thyroid hormone re	ATLIXVI	8 .	4	17.8	489	æ
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thyroid hormone re	A32608	4 2	61	17.8	389.5	35
thyroid hormone re	S09178	0 2	41	17.8	390	ý
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retinoic acid rece	A56558	4 2	46	18.0	394	لد
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thyroid hermone in	TVCHVR	æ	40	18.4	401.5	30

# ALIGNMENTS

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	316 QQLLLEPMLKFHYMLKKIQLHEEEYVLMQAISLFSPDRFQVLQHRVVLQLQEQFAIILKS 375 :II   HII:::      ::	A 40
	257 FAKVISYFRDLPIEDQISLIKGAAFELCQIRFNTVFNAKTGTWECGRISYCLEDT-AGGF 315   HT:   H:	od da
	197 AKWSQVRKDLOSLKVSLOLKGEDGSVWNYKPPADSGGKETESLLPHMADMSTYMFKG118 256	ob ob
	137 PLGVQGLIFEEQRMMIREIMDAQMKTFDTTPSHFKNERLEGVLSSGCELDESLQAPSREEA 196 	da
	78 PPRKGAGEITRKIRROGOAGRERKGLESGMKKEMIMSDEAVEERRALIKRK-KSERIGTO 146 	dd Vŷ
	18 EDTESVPGKPSVNADEEVGGPOTCRVGGDKATGYHFNVMTCEGCKGFFKRAMKRNAKLKC 77	D Qy
10;	Ouery Match 42.2%; Score 922.5; DB 2; Length 386; Best Local Similarity 46.6%; Pred. No. 6.4e-65; Matches 194; Conservative 54; Mismatches 99; Indels 69; Gaps	Query M Best Lo Matches
homology	A;Status: preliminary; nucleic acid sequence not shown A;Molecule type: mRNA A;Molecule type: mRNA A;Residues: 1 *86 < <smi> A;Cross-references: EMBL:X75163; NID:q410517; PIDN:CAA53005.1: PID:q410518 A;Cross-references: EMBL:X75163; NID:q410517; PIDN:CAA53005.1: PID:q410518 C;Superfamily: unassigned erbA-related proteins: erbA transforming protein homology <ekba> F:35*303/Domain: erbA transforming protein homology <ekba></ekba></ekba></smi>	A;Status:   A;Molecule A;Residues A;Cross-re- C;Superfam C;Keywords F;35-303/Do
y lates with	RESULT 1  S441497 C; Date: 20-May-1994 #sequence_revision 26-May-1995 #text_change 20-Sep-1999 R; Smith, D. P.; Mason, C. S.; Jones, E.A.; Old, R.W. Nucleic Acids Res. 22, 66-71, 1994 A; Nicleic Acids Res. 22, 66-71, 1994 A; Nicleic Acids Res. 24, 66-71, 1994 A; Reference number: \$41497; MUID: 94173664 A; Accession: \$41497	RESULT \$41497 thyroio C;Spec C;Date C;Date C;Acce C;Acce A;Titla A;Titla A;Accec A;Accec

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                                                                                           Aptross references: [ddd:ABW-05/4]
A:Experimental source: intestine
c:Comment: This receptor is an important factor in calcium homeostasis and bone tormatic
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Paspecies: Parallichthys ofivaceus
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C:Keywords: UNA binding
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hos 1965 Conservative
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47.1%; Pred. No. 6.5e 65;
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C;Superfamily: unassigned orbA related proteins; orbA transforming protein bomology C;Keywords: bome; calcium transport; DNA binding; bormone receptor; intestine; vitami

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Oberty Match 45,8%; Score 771; 18-2; 18-est Local Similarity 41,0%; Pred. No. 5,6e-53; Matches 170; Conservative 65; Mismatches 187;
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Crispectes: Cothilix cothinix japonics (Japanese quail)
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Archile: The avian vitamin D receptors: primary structures and their origins.
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Ξ Š Ξ ς. Ş Matches 170; Best Local Similarity 135 ALKESLKPK LSEEQQKVINIILLEAHHKTEDTTYSDFNKFRPPVRSKESSSTATHSSSVV 193 133 TOTOPLOVOCUTEEORMMIRELMOAQMKTEFT PESHEKNERLIF-7 2 AKLROTERKOATELIIKKIRROODATKUKKTUESOMKKEMIMSDEAVEERRALIKKKKSER II AK 16 CESQELQSSDMETPAVGTPBEDRNVPRICGOV/GDRATGEFFNAMTGEG/KGFFRRSMKRK 75 27 CEDTE ··· SVIKIKPSVNADE ·EVGGPOTCRVCGDKARGYHENVMTGEGCKGFERRAMKRN 72 AMFECTE SGDCKLIKUNRKHODACKLKROVDIGMMKEFILIDEEVUKKREMILKKKEEE 134 Collservative 35.1%; Score 768.5; 1 68; Mismatches 147; Indels 54; Gaps Score 768.5; DB 2: Lamigth 448; ... ...

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A; Residues: 'R',58-423 <BU2>
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Proc. Natl. Acad. Sci. U.S.A. 85, 1005-1009, 1988
A:Title: Isolation and expression of rat 1,25-dihydroxyvitamin
A:Reference number: A31367; MUID:88124963
A:Accession: A31367;
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A:Accession: A31761
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C:Bate: 07-Jun-1990 #sequence_revision 07-Jun-1990 #text_change
C:Accession: A31761; A31367
R:Burmester, J.K.; Wiese, R.J.; Maeda, N.; DeLuca, H.F.
Proc. N *1. Acad. Sci. U.S.A. 85, 9499-9502, 1988
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           WTCGSNDFKYKVSDVTQAGHSMDLLEPLVKFQVGLKKLNLHEEEEHVLLMAICILSPDRPG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     WECGR--LSYCLED-TAGGEQQLLLEPMLKEHYMLKKLQLHEEEYVLMQAISLESPDRPG
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LTSDDQIVELKSSAIEVIMLRSNQSFIMDDMSWDCGSQDYKYDVTDVSKAGHTLELIEPL
                                              LPTEDQTSLLKGAAFELCOLRENTVENAETGTWEGGRLSYCLEDT - - - AGGEQQLLLLEPM
                                                                                                                                                                                                HHKTYDPTYADFRDFRPPVKMDGSTGSYSPR----PTLSFSGNSSSSSSDLYTTSLDMME 194
                                                                                                                                                                                                                                               UMKTFDTTESHFKNFRLFGVL--SSGCELPESLQAPSREEAAKWSQVRKDLCSLKV----
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          -----ATPLMQELFG 410
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                                                                                                                                                                                                                                                                                                RLKRCVDIGMMKEFILTDEEVQRKREMIMKRKEEEALKDSLRPK-LSEEQQHIIAILLDA
                                                                                                                                                                                                                                                                                                                                               KIRKCLESOMKKEMIMSDEAVEERKALIKRKKSERTGTQPLGVQGLTEEQRMMIRELMDA 157
                                                                                                                                                                                                                                                                                                                                                                                                   PRICHYCGDRAIGEHENAMICEGCKGFFRRSMKRKALFICFF-NGDCRIIKDNRRHCQAC
                                                                                                                                                                                                                                                                                                                                                                                                                                                 PQICKVCGDKATGYHFNVMTCEGCKGFFRRAMKKNARLRCPFRKGACEITRKTRRQCQAC 97
                                                                                                                                              SLQLEGEDGSVWNYKPPADSGGKEIFSLLPHMADMSTYMFKGIISFAKVISYFED
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40.0%; Pro
30a 70;
                                                                                             -DPSVTLDLSPLSMLPHLADLVSYSIQKVIGFAKMIPGFRD
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vitamin D receptor - mouse (fragment)
C:Species: Mus musculus (house mouse)
C:Date: 26-Jun-1995 *sequence_revision 14-Jul-1995 *text_change 20-Sep-1999
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C:SE-386/Domain: erbA transforming protein homology SERBA>
F:24-89/Domain: DNA binding #status predicted SBIN-
F:191-422/Region: vitamin D binding #status predicted
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A;Accession: PC4019
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C;Supertamily: unassigned erbA-related proteins; erbA-transtorming protein homology
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               A; Molecule type: mRNA
A; Residues: 1-422 < KAM>
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    C; Accession: PC4019
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363
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                                                                                                                                                                                                                                        261 ISYERDLPIEDQISILKGAAFELCQLRENTVENAETGTWECGRLSYCLEDT---AGGEOO
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RCRHPPPGSHQLYAKMIQKLADLRSLNEEHSKQYRSLSFQPENSMKLTPLVLEVFG
                                            ECNRPOPAHRELELKIMAMIJEE --
                                                                                            ELTEPLIKEQVGLKKENLHEEEHVLLMATCTVSPDRPGVQDAKLVEATQDRLSNTLQTYT
                                                                                                                                                                                           TPGFRDLTSDDØTVLLKSSATEVIMLRSNØSFTMDDMSWDGGSØDYKYDTTDVSRAGHTL
                                                                                                                                                                                                                                                                                                                                                                                                                                        OMKTEDTTESHEKNERLP - - GVLSSGCELP - - -
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               PQICKVCGDKATGYHENVMTCEGCKGFFKKAMKKNAKLKCPFKKGACETTRKTTRFUCUAC 97
                                                                                                                                         LLLEPMLKFHYMLKKLQLHEEBYVLMQAISLESPDRPGVLQHRVVDQLQEQFAITLKSYI
                                                                                                                                                                                                                                                                                                                                       QVRKDLCSLKVSLQLRGEDGSVWNYKPPADSGGKETFSLLPHMADMSTYMFKGTISFAKV
                                                                                                                                                                                                                                                                                                                                                                                         HHKTYDPTYADFKUFRPP1KADVSTGSYSPRPTLSFSGDSSSNSDLYTPSLDMMEPASFS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        RIKROVDIGMMKEE HITDEEVORKREMIMKRKEEEEALKUSERPK-LSEEQQHITAHIJJA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                RERKCHESGMKKEMIMSDEAVEERRALIKRKKSERTGTOPLGVOGLTEEORMMIRELMIJA 157
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             PGSHQLYAKMIQKLADLKSLNEEHSKQYRSLSFQPENSMKLTPLVLEVFG 419
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          TREQUELIKALNI.HEEEHVILIMATCTVSPDRPGVQDAKLVEATQDRI.SNTTQTYTRCKHPP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 166;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       a, I.; Fukuwatari, T.; Ono, T.; Kato, S.;
1995
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39.9%;
                                                                                                                                                                                                                                                                                          -NEEGS----DDPSVTLDLSPLSMLPHLADLVSYSIQKVIGFAKM
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R:Baker, A.R.; McDonnell, D.P.; Hughes, M.; Crisp, T.M.; Mand Proc. Natl. Acad. Sci. U.S.A. 85, 3294-3298, 1988 A:Title: Cloning and expression of full-length cDNA encoding

Mangelsdort, D.J.;

Haussler,

20-Sep-1999

human

vitamin D receptor

A; Reference number: A28200; MUID: 88217887

C:Species: Homo sapiens (man)
C:Date: 19-May-1989 #sequence\_revision 19-May-1989 #text\_change
C:Accession: A28200: 155353

vitamin D receptor .

munda

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A:Fitle: A simple receptor identical with that from intestine/PA7D cells mediates the A:Feteronee number: $241/4; MRID:P4379083
A:Feteronee number: $241/4; MRID:P4379083
A:Feteronee number: $241/4
A:Molecule type: mRNA
A:Feteronee: [ 427 - 651 - 651 - 651 - 651 - 651 - 651 - 651 - 651 - 651 - 651 - 651 - 651 - 651 - 651 - 651 - 651 - 651 - 651 - 651 - 651 - 651 - 651 - 651 - 651 - 651 - 651 - 651 - 651 - 651 - 651 - 651 - 651 - 651 - 651 - 651 - 651 - 651 - 651 - 651 - 651 - 651 - 651 - 651 - 651 - 651 - 651 - 651 - 651 - 651 - 651 - 651 - 651 - 651 - 651 - 651 - 651 - 651 - 651 - 651 - 651 - 651 - 651 - 651 - 651 - 651 - 651 - 651 - 651 - 651 - 651 - 651 - 651 - 651 - 651 - 651 - 651 - 651 - 651 - 651 - 651 - 651 - 651 - 651 - 651 - 651 - 651 - 651 - 651 - 651 - 651 - 651 - 651 - 651 - 651 - 651 - 651 - 651 - 651 - 651 - 651 - 651 - 651 - 651 - 651 - 651 - 651 - 651 - 651 - 651 - 651 - 651 - 651 - 651 - 651 - 651 - 651 - 651 - 651 - 651 - 651 - 651 - 651 - 651 - 651 - 651 - 651 - 651 - 651 - 651 - 651 - 651 - 651 - 651 - 651 - 651 - 651 - 651 - 651 - 651 - 651 - 651 - 651 - 651 - 651 - 651 - 651 - 651 - 651 - 651 - 651 - 651 - 651 - 651 - 651 - 651 - 651 - 651 - 651 - 651 - 651 - 651 - 651 - 651 - 651 - 651 - 651 - 651 - 651 - 651 - 651 - 651 - 651 - 651 - 651 - 651 - 651 - 651 - 651 - 651 - 651 - 651 - 651 - 651 - 651 - 651 - 651 - 651 - 651 - 651 - 651 - 651 - 651 - 651 - 651 - 651 - 651 - 651 - 651 - 651 - 651 - 651 - 651 - 651 - 651 - 651 - 651 - 651 - 651 - 651 - 651 - 651 - 651 - 651 - 651 - 651 - 651 - 651 - 651 - 651 - 651 - 651 - 651 - 651 - 651 - 651 - 651 - 651 - 651 - 651 - 651 - 651 - 651 - 651 - 651 - 651 - 651 - 651 - 651 - 651 - 651 - 651 - 651 - 651 - 651 - 651 - 651 - 651 - 651 - 651 - 651 - 651 - 651 - 651 - 651 - 651 - 651 - 651 - 651 - 651 - 651 - 651 - 651 - 651 - 651 - 651 - 651 - 651 - 651 - 651 - 651 - 651 - 651 - 651 - 651 - 651 - 651 - 651 - 651 - 651 - 651 - 651 - 651 - 651 - 651 - 651 - 651 - 651 - 651 - 651 - 651 - 651 - 651 - 651 - 651 - 651 - 651 - 651 - 651 - 651 - 651 - 651 - 
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Agraeme: GDR:L20487; OMIM:631760; OMIM:277440
CSReywords: DNA binding: Canseription regulation; Zine linger
E:24 44/Keepion; Zine linger
F:22 341/Domain: erbA transforming protein homology «EKBA
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A:Reterence number: 155.63; MUID:91210272
A:Accession: 155.63;
A:Accession: 155.63;
A:Accession: postiminary: translated from GRZEMED/DDEJ
A:Mollecule type: mENA
                                                                                                                                                                                                                                                                                                                                                                                                                     C:Accession: 824174
R:Goto, H.; Chen, K.; Prahl, J.M.; Debuca,
Riochim, Biophys. Acta 1142, 104-108, 1992
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A:Accession: Cype: miRNA
A:Residius: 1 427 - NAK -
A:Prioss (efforcaces: GR:H04258; Nib:q440202; PibN:AAA61273.1; Pib:q440203
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J. Biol. Chem. 206, 7588-7595, 1991
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  2) PROCOVEGORATOFRENAMICE CYROFFERRSMKRKADFIODE NGECKLIKUNRRECOAC 79
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             receptor rat
: Bathus norvegious (Norway rat)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    DESVILEUSOLSMI.PHLADLVSYSTOKVIGFAKMIFGE
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    bB 2; Length 427;
    2.5e 51;

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124 ARRP++++REIDEQSQVIAMEVEAHHKTYDDSYSDFCRERPPVREGPVTRSASRAASEHS

134 CHOPLGVQGLIEEQRMMIRELMDAQMKTFDTTESHEKNERLE:

GVLSSGCELPESLOA 190

178

64 NGSCTTTKDURRHCQACKLKRCVDTCMMKEFTLTDEEVQKKKDLTQKKKDEEAQREAERE 122

81 KGACETTRKTRROCQACRERKCLESGMKKEMIMSDEAVEERRALIKKKK

SERT 133

4 TYVSTSSLASDEFDRNMPRICGVCGDKATGFHENAMTCEGCKGFFRRSMKRKATFTCPF- 62

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Riochem, Biophys, Res. Commun. 270, 40–45, 2000
A:Fitle: Identification of cDNAs encoding two subtypes of vitamin b receptor in flour
A:Reference number: JC7229
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                vitamin b receptor subtype b Paralichthys ofivaceus
C:Species: Paralichthys ofivaceus
C:Bate: 09 Jun-2000 #sequence_revision 09 Jun 2000 #text change lB
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                                                                                                                                                                                                                                           C:Superfamily: unassigned crbA related proteins; crbA transforming protein homology C:Keywords: bone; calcium transport; bNA binding; intestine; vitamin b
                                                                                                                                                                                                                                                                                                         A;Gene: viti b
                                                                                                                                                                                                                                                                                                                                            C:Geneties:
                                                                                                                                                                                                                                                                                                                                                                       Cycomment: this receptor is an important factor in calcium homeostasis and bone forma
                                                                                                                                                                                                                                                                                                                                                                                                    A: Experimental source: intestine
                                                                                                                                                                                                                                                                                                                                                                                                                                 A; Cross-references: DDBJ:ABU-7674
                                                                                                                                                                                                                                                                                                                                                                                                                                                                  A; Molecule type: mRNA
A; Residues: 1 425 - SUZ -
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                A:Accession: Je7230
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Risuzaki, T.; Suzuki, N.; Srivastava, A.S.; Kurokawa, T.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      C:Accession: JC7230
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Host Local Similarity 40.3%; Pred. No. 2.5e 51;
Matches 166; Conservative 62; Mismatches 136; Indels
                                                                                                                                               onery March
                                                                                                                     Best Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           472 PPPGSHLLYAKMIQKLADLRSLNEEHSKOYROLSFOPECSMKEIPLVLEVFG
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    312 PLIKEQVCLKKI.NLHEEEHVILIMATCTVSFDRPGVQDAALTEATQDRISNITQTYTRCRH
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              322 PMLKEHYMILKKLOLHEBEYVILMOATSLESPIRRIGVILQHRVVDQLQEQEATTLIKSYTECNR 481
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                252 KULTSEDQTVLLKSSATEVIMLRSNESETMHHMSWTCGNQDYKYRVSUVTKAGHSLELTE
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                208 - SLKYSLQLRGEDGSVWNYKPPADSG3KETFSLLPHMADMSTYMFKGTTSFAKVTSYF
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1.49 HHKTYDITTYSDECOFREDVRVNDGGGSHPSRENSRHTPS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               158 OMKTEDTTESHFKNERLJEGVLSSG
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                             22 SVEGKPSVNADE - EVGGPQ I GRVCGDKA I GYHENVM TO EGOKGFFRRAMKRNAKLROPER - 80
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                                                                                        Conservative 74; Mismatches 144;
                                                                                                                     44.2%;
49.8%;
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                                                                                                                     Score 748.5; DB 2;
Prod. No. 3.30 51;
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FSGDSSSSCSDHCTISSDM 196
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                                                                                           Indels 54:
                                                                                                                                                  Length 425;
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                                                                                           12;
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nuclear hormone receptor MB67 - human CJSpecies: Homo sapiens (man) CJSpecies: Homo sapiens (man) CJDate: 28 Apr-1995 #sequence_revision 28-Apr-1995 #text_change 20-Sep-1999 CJACCESSion: A56197 CJACCESSion: A56197 RJBaes, M.; Gulick, T.; Choi, H.S.; Martinoli, M.G.; Simha, D.; Moore, D.D. RJBaes, M.; Gulick, T.; Choi, H.S.; Martinoli, M.G.; Simha, D.; Moore, D.D. Roll, Coll. Hiol. 14, 1544-1552, 1994
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       A:Title: A new orphan member of the nuclear hormone receptor superfamily that A:Reterence number: A56197; MUID:94158627
A:Accession: A56197
A:Status: preliminary
A:Molecule type: mRNA
A:Residues: 1-348 <BAES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        A:Cross-reterences: GB:Z30425; GB:L29263; NID:g458541; PIDN:CAA83016.1; PID:g458542 C:Superlamily: unassigned erbA-related proteins; erbA transforming protein homology C:Keywords: zinc tinger F:9-270/Domain: erbA transforming protein homology <EKBA>
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Best Local Similarity
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319 LRSINEAYGYQIQHIQGLSAMMPLLQEI 346
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  101 KCLESGMKKEMIMSDEAVEERRALIKRKKSERTOTOPLOVOGLTEEORMMIRELMDAOMK 160
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         11 CVVCGDQATGYHFNALTCEGCKGFFRRTVSKS1GPTCPF-AGSCEVSKTQRRHCPACRLQ 69
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                41 CRVCGDKATGYHENVMTGEGCKGFERRAMKRNAKLRCPERKGACEITRKTRRQCQACRLE 100
                                                                                                                                           YVLMQATSLESPDRPGVLQHRVVDQLQEQEATTLXSYTECNRPQPAHRELELKIMAMLTE
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                                                                                                                                                                                                                       VETCHTVLNTTECLQTQNFLCGPLRYTTEDGARVGFQVEFLELLFHFHGTLRKLQTQEPE
                                                                                                                                                                                                                                                                            FELIQLEENTVENAETSTWEGGELSYGLEDTAG-GEQQUILLEPMLKEHYMLKKIQLHEEE
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                                                                                                                                                                                                                                                                                                                                                                                    SVWNYKPPADSGGKEIFSLLPHMADMSTYMFKGIISFAKVISYFRDLPIEDQISILKGAA 280
                                                                                                                                                                                                                                                                                                                                                                                                                                                  HMGTMFEQEVQFRPPAHLFIHHQ-PLFTLAP
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                                                                                                           YVII.AAMALESPORPGYTORDEIDULQEEMALTLQSYIKGQQRRPRORFLYAKLIGILAE
                                                                                                                                                                                                                                                                                                                                      -----VLPLVTHFAD1NTFMVLQVIKFTKDLPVFRSLPIEDQ1SLLKGAA
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               33.4%; Score 731; DB 2; 40.5%; Pred. No. 6.1e-50;
                                                       --PIMOEL 408
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R:Shinar, D.M.; Endo, N.; Rutledde, S.J.; Vogel, R.; Rodan, G.A.; Schmidt, A. Gene 147, 273-276, 1994
A:Title: NER, a new member of the gene family encoding the human steroid hormone A;Reference number: JC4014; MGID:95011628
A;Recession: JC4014
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       A:Cross-references: GDB: 89570; OMIM:600480
A:Map position: 19q13.4:19q13.3
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C;Species: Homo sapiens (man)
C;Date: 13-Jun-1995 #sequence_revision 14-Jul-1995 #text_change 24-Sep-1999
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                A; Molecule type: mRNA
A; Residues: 1-461 <SH(>
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Best Local Similarity
Matches 122; Conserv
402 -TPLMQELEGI 411
                                                       389
                                                                                                                                                        329
                                                                                                                                                                                                       302
                                                                                                                                                                                                                                                                                                                                                            245
                                                                                                                                                                                                                                                                                                                                                                                                         184 LPESLQAPSREFAAKWSQVRKDLCSLKVSLQLRGEDGSVWNYKPPADSGGKEIFSLLFHM
                                                                                                                                                                                                                                                                                                                                                                                                                                                             201
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               143
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            143 QCRLRKCKEAGMREOCVLSEEQ1RKKK--1RKQQQQESQSQSQSPVGPQGSSSSASGPGA 200
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                                                    PGRVEALQQPYVEALLSYTKIKRDQDQLRFPKMLMKLVSLKTLSSVHSEQVFALRLQDKK 448
                                                                                                                                                                                                                                                                                                        ADMSTYMFKG1ISFAKV1SYFRDLPIEDQ1SLLKGAAFELCQLRFNTVFNAETGTWEC--
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            GPQICRVCGDKATGYHENVMTCEGCKGFERRAMKRNAKLKCPFR-KGACEITRKTRRQCQ-95
                                                                                                 HRVVDQLQEQFAITLKSYIECNRPQPAHRF- LFLKIMAMLT
                                                                                                                                                     PLKDFTYSKDDFHRAGIQVEFINDIFEFSRAMKKLGLDDAFYALLIAINIFSADKPNVQE
                                                                                                                                                                                                                                                      TELATISVQETVDFAKQVPGFTQLGREDQTALLKASTTEIMLLETARRYNHET---ECIT
                                                                                                                                                                                                                                                                                                                                                            --GRESYCLED-TAGGEQUELLEPMEKFHYMEKKEQEHEEEYVEMQATSLESPDREGVEQ 358
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              21.6%; Score 472; DB 2; 1
dlarity 28.3%; Pred. No. 1.9e 29;
Conservative 80; Mismatches 119;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Longth 461
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C:Accession: 149021 R:Seol, W.; Choi, H.S.; Moore, D.D. Mol. Endocrinol. 9, 72-85, 1995

A; Title: Isolation of proteins that interact specifically with the retinoid X recepto A; Reference number: A57664; MUID: 95280959

retinoid X receptor interacting protein No.15 - monse C:Species: Mus musculus (house monse) C:Date: 02-Jul-1996 #sequence\_revision 02-Jul-1996 #te

24 - Sep - 1 499

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Ascence RIPIS
CSEmpertamily: unassigned orbA related proteins; orbA transforming protein homology
CSEquands: zinc finare
FST6 (65/Domain: orbA transforming protein homology (ERBA)
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As Resaudness: 1 445 - APF+
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A:Reference number: A56044; MUDD:95021240
A:Recession: A56044
A:Status: preliminary
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A:Status: preliminary:
A:Molecule type: mKNA
A:Residues: [ 446 - KES -
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 A; Note: authors translated the codon GAG for residue 74 as Ser
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 A;Cross reterences: GB:011686; NJD:q55751; PIDN:AAA54643.1; PID:q55752
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:Status: proliminary: translated from GB/EMPA/DJBJ
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A:Molecule type: mkNA
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A:Cross-references: EMBL:014533; NID:q56566b]; PIDN:AAA52461.1; PID:q565662
                                                                                                                                                                  A:Accession: 159264
A:Status: translated from GB/EMBL/DUBJ
                                                                                                                                                                                                                                                                                        A:Experimental source: Spragne bawley, bepatic
A:Experimental source: Spragne bawley. bepatic
A:Bittle: Uniquitous receptor: a receptor that modulates gene activation by retunde a
A:Fittle: Uniquitous receptor: a receptor that modulates
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R:Teboul, M.: Enmark, E.; Li, Q.: Wikstrom, A.C.; Pello Huikko, M.: Gustafsson, Proc. Natl. Acad. Sci. U.S.A. 92, 2095-2100, 1995
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()Species: kattus norvegicus (Norway :at)
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A:Cross references: EMBL:020389; NID:q665941; PIDN:AAA69522.1; FID:q665942
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A; Experimental source: vagina
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Best Local Similarity
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GHELCRVCGDKASGEHYNVLSCEGCKGFFKKSVVHGGAGKYACKGSGTCQMDAFMRRKCQ 133
                                                                                    Conservative
                                                                                                     21.1%; Score 461; 108-2; 28.1%; Pred. No. 1.3e-28;
                                                                                    78;
                                                                                    Mismatches
                                                                                                                         1918 2; Length 446;
                                                                                    Indels 102;
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C; Keywords: DNA binding: zinc linger

466/Domain: erbA transforming protein homology «ERBA

C:Superfamily: undssigned orbA-related proteins; orbA transforming protein homology

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PESIOA 190 229 MSTYM 250 ILAHIS 263 ILAHIS 263 ILAHIS 263 RUPTY 320 RVVDQL 365 RVEDQL 365 RVEDQL 365 RVEDQL 367 RVE	OY 249 YMFKGIISFAKVISYFRÜLPHENQISLLKGAAFELGGLRENTVENAETGTWEGGRLSY 306  1		OY 132RTGTQPLGVQGLTEEQRMMIRELMDAQMKTFDTTFSHFKNFKLPGVLSSGCELPESL 188 Db 192 LPPKRSSPPQLLPQLSPEQLGMIEKLVAAQQQCNRRSFS	••	8 EDTESVPGKPSVNADEEVGGPQICRVCGDKATGYHFNVMTCEGCKGFFRRAMKRNARLRC 	Query Match 20.9%; Score 456.5; DB 2; Length 447; Hest Local Similarity 28.4%; Pred. No. 3e-28; Matches 121; Conservative 76; Mismatches 142; Indels 87; Gaps	A:Status: preliminary A:Molecule type: mRNA A:Molecule type: mRNA A:Residues: 1-447 <	A.; Mangels bid respons	o 20-Sep-19	MOMI ::::	481 QQPYVEALLSYTKIKRPQDQLRFPKMLMKLVSLRTLSSVHSBQVFALRLQDKKLPPLLSE	366 QEQFAITLKSYIECHRPQFAHRF1.FT.KIMAMTTEFATPLMQE	Qy 307 CLED-TAGGEGOLLLEPMLKFHYMLKKLQLHEEEYVLMQALSLESDDEPGVLQHRVVDQL 365	COLOR OF THE COL	230 - DQPKVTPWP	191 PSREEAAKWSOVRKDIGSIKVSIOLRGEDSSVWNYKDPADSGGKETESTIDHMADMSTYM	· >	
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BLOSUM62 Gapop 10.0 , Gapext 0.5

100059 seqs, 36664827 residues

Total number of hits satisfying chosen parameters: 100059

Minimum DB seq Maximum DB seq length: 0 length: 20000000000

Post-processing: Minimum Match 0%
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Database :

wissProt\_39;\*

Pred. No. is the number of results predicted by chance to have a score wreater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

#### SUMMARIES

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## ALIGNMENTS

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AF061056; AAD05436.1; AF084645; AAC64558.1; 03065; ro: IPR000536; Hormone_rec_liq.	between the Swiss institute of Bioinformatics and the Emmillion on station the European Bioinformatics institute. There are no restrictions on its use by non-profit institutions as long as its content is in no way modified and this statement is not removed. Usage by and for commercial entities requires a license agreement (See http://www.isb-sib.ch/announce/or send an email to licensegisb-sib.ch).	PRECEDENCIAN ACTIVATED BY NATURALLY OCCURRING STEROIDS SUCH AS PRECEDENCIANE AND PROCESTERONE.  -I- SIMILARITY: BELONGS TO THE NUCLEAR HORMONE RECEPTORS FAMILY.  NRI SUBFAMILY.  This SWISS-PROT entry is copyright. It is produced through a collaboration than SWISS-PROT entry is copyright. It is produced through a collaboration.	n of a human nuclear receptor dedices a new PNA induction."; ad. Sci. U.S.A. 95:12208-12218(1958)) orbhan Receptor its NATURAL LYANDAS PROB BINDS TO A RESPONSE ELEMENT IN THE CYPDA4 ( ORMS A HETERODIMER WITH RXR. R LUCATION: NUCLEAR (BY SIMILARITY). RELECTIV: EXPRESSED IN LIVER, COLON, AND SR	TISSUF-Liver: MEDLINE-9839573: PubMed-9727070; Lichmann J.M., McKee D.D., Watson M.A., Willson T.M., Moore J.T., Kliewer S.A.; "The human orphan nuclear receptor PXR is activated by compounds that regulates CYP3A4 gene expression and cause drug interactions.": J. Clin. Invest. 102:1016-1023(1998). [2] SEQUENCE FROM N.A. TISSUF-Liver: MEDLINE-9844550; PubMed-9770465; Bertlisson G., Heidrich J., Svensson K., Asman M., Jendeberg L., Sydow-Hackman M., Ohlsson R., Postlind H., Hlomguist P., Retkenstan A.	PERL HUMAN STANDARD; PRT; 434 AA.  ID PXR_HUMAN STANDARD; PRT; 434 AA.  AC 075469;  DT 15-JUL-1999 (Rel. 38, Created)  DT 15-JUL-1999 (Rel. 38, Last sequence update)  DT 20-ALG-2001 (Rel. 40, Last annotation update)  DE ORPHAN NUCLEAR RECEPTOR PXR (PREGNANE X RECEPTOR) (ORPHAN NUCLEAR  DE RECEPTOR PAR1).  GN NR112 OR PXR.  OC HUMATYOLA: Metazoa: Chordata: Craniata: Vertebrata: Euteleostomi:  OC Mammalla; Eutheria: Primates: Catarrhini; Hominidae; Homo.  OX NCHL_TaxID-9606;  RN [1]  RN [1]  RP SEQUENCE FROM N.A.

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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Jones S.A., McKee D.D., ol
Perlmann T., Lehmann J.M.;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Kliewer S.A.,
                                                                                                                                                           SEQUENCE
                                                                                                                                                                           VARSPLIC
                                                                                                                                                                                                              NIAMOG
                                                                                                                                                                                                                                                                                                                  PROSITE: PS00031; NUCLEAR RECEPTOR;
                                                                                                                                                                                                                                                                                                                                   SMART: SM00399; ZnF_C4;
                                                                                                                                                                                                                                                                                                                                                                                                                                                          InterPro;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                      InterPro: IPR001723; Strdhormone_reptor.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            InterPro: IPR000536; Hormone_rec_liq.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     use by
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    "An orphan nuclear receptor activated by pregnanes defines a novel
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          MEDLINE-98149345; PubMed 9489701;
                                                                                                                                                                                                                                                                 CINTH VNC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   TENCTION: ORPHAN RECEPTOR; ITS NATURAL LIGAND IS PROBABLY
1 MKPEESWSRVGLAQCEFADSALEEP-INVEEEDXGLQTCKVCGDKANGYHENVMTCFGCK 59
                                  3 VERKESMUHADERHGEDTESVEGKRSVNADEEVGGROTCKVGGDKATGYHENVMTGEGGK 62
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         SUBBUNIT: FORMS A HETERODIMER WITH RXR.
SUBCELLULAR LOCATION: NUCLEAR (BY SIBMLARITY).
ALTERNATIVE PRODUCTS: 2 ISOFORMS: 1/PXR.1 (SHOWN HERE) AND
2/PXR.2: ARE PRODUCED BY ALTERNATIVE SPLICING.
INDUCTION: ACTIVATED BY NATURALLY OCCURRING STEROLDS SUCH
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         SIMILARITY: BELONGS TO THE NUCLEAR HORMONE RECEPTORS FAMILY
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ANTIGLUCOCORFICOIDS AND 16-ALPHA CARBONITRILE (FCN)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            PREGNENOLONE AND PROGESTERONE, SYNTHETIC GLUCOCORTICOLDS AND
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 PRECNANE, BINDS TO A RESPONSE ELEMENT IN CYPSA GENES PROMOTER
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               AF031B14; AAC39964.1;
                                                                                     Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         SUBFAMILY
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   non-profit institutions as long as its content
                                                                                                                                                                                                                                                                                                                                                                                                                                                           IPR001628; zt-04.
                                                                     Conservative
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                                                                                                                                                           $
                                                                                                                                                                                          201
                                                                                    76.6%: Score 1675.5; DB
73.3%: Prod. No. 5e 128:
                                                                                                                                                         211 A 49567 MW;
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                                                                   41;
                                                                                                                                                                                                                              C4 TYPE.
                                                                                                                                                         HINGE:
LICAND BINDING:
MISSING (IN ISOFORM 2):
; F592AF91F689329E CRC64;
                                                                                                                                                                                                                                                                   NUCLEAR RECEPTOR TYPE
                                                                     Mismatches
                                                                                                      DB 1; Length 431;
                                                                     54;
                                                                     Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Zetterstrom
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Arch. Blochem. Biophys. 368:14-22(1999).
-!- FUNCTION: OKPHAN RECEPTOR: LTS NATURAL LIGAND IS PROPRESONABLE. BINDS TO A RESPONSE ELEMENT IN CYP3A GENES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            20-AUG-2001 (Rel. 40, Created)
20-AUG-2001 (Rel. 40, Last sequence update)
20-AUG-2001 (Rel. 40, Last annotation update)
20-AUG-2001 (Rel. 40, First annotation update)
08-PHAN NUCLEAR RECEPTOR PXK (PREGNANE X RECEPTOR).
 SEQUENCE
                NIVMOCI
                            NIVWOOL
                                                                                                                                   SMART: SM00430; HOLL; 1.
SMART: SM00399; ZnF_C4; 1.
                                                                                                                                                                  Ptam: PF00104: hormone_rec; 1.
ptam: PF00105: z1-c4; 1.
pR1NTS: PR0047: STROIDEINGER.
PRINTS: PR00350; VITAMINDR.
PRINTS: PR00350; SIRDHORMONER.
                                                                                                                                                                                                                                                                                                                          or send an email to licensesisb-sib.ch).
                                                                                                                                                                                                                                                                                                                                                       use by non-profit institutions as long as its content modified and this statement is not removed. Usage by an
                                                                                                                                                                                                                                                                                                                                                                                      the European Bioinformatics Institute.
                                                                                                                                                                                                                                                                                                                                                                                                    This SWISS-PROT entry is copyright. It is produced through a collaboration between the SWISS-INSTITUTE of Bioinformatics and the EMBL outstation -
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           xemobiotic regulation."
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Zhang H., LeCulyse E., Liu L., Hu M., Matoney L., Zh
"Rat pregname X receptor: molecular cloning, tissue
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          MEDITINE-99345883; PubMed-10415106;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           STRAIN SPRAGUE-DAWLEY;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          SECTION SECTION N.A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Μ: πalla; Eutheria; Rodentia; Sciuroynathi; Muridae; Murinae; Rat
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Rattus norvegicus (Rat)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    NR112 OR PXR.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Q9R1A7;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             DXR_RAI
                                              ZN_FING
                                                             ZN_FING
                                                                              DNA_BIND
                                                                                         Zinc-finger
                                                                                                                        PROSITE: PS00031; NUCLEAR_RECEPTOR; 1
                                                                                                                                                                                                                                               InterPro: IPR001723: Strdhormone_reptor
InterPro: IPR001628: zf-C4.
                                                                                                                                                                                                                                                                             InterPro: IPR000536; Hormone_rec_lig
                                                                                                                                                                                                                                                                                             EMBL; AF151377; AAD47214.1;
                                                                                                                                                                                                                                                                                                                                     entities requires a license agreement (See http://www.isb-sib.ch/announce/
                                                                                                        Receptor:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         420 PLMUELESST 429
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                 SUBUNIT: FORMS A HETERODIMER WITH RXR (BY SIMILARITY).
SUBCELLULAR LOCATION: NUCLEAR (BY SIMILARITY).
SIMILARITY: BELONGS TO THE NUCLEAR HORMONE RECEPTORS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   _Fax1D-10116;
                                                                                                                                                                                                                                                                                                                                                                                                                                                    NR1 SUBFAMILY.
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                                                                                                         Transcription
431 AA;
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                                                                                                         regulation; DNA-binding; Nuclear protein;
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                                           NUCLEAR RECEPTOR-TYPE C4-TYPE. C4-TYPE.
                LIGAND-BINDING
                              HINGE
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4B545F21F9439697 CRC64
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                                                                                                                                                                                                                                                                                                                                                     Usage by
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ue distribution,
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Best Local Similarity
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013124;
15-DEC-1998
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MEDLINE-97307679: PubMed-9165021;
Li Y.C., Bergwitz C., Jueppner H.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 15-DEC-1998 (Rel. 37, Greated)
15-DEC-1998 (Rel. 37, Last sequence update)
15-DEC-1998 (Rel. 38, Last annotation update)
VITAMIN D3 RECEPTOR (VDR) (1,25-DIHYDROXYVITAMIN D3 RECEPTOR)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Endocrinology 188:2347-2358(1997).
-!- FUNCTION: VDE MEDIATES THE ACTION OF VITAMIN THE EXPRESSION OF HORMONE SENSITIVE GENES.
                                          -1- DOMAIN: CUMPOSED OF THREE DOMAINS: A MODULATING N-TERMINAL A DNA-BINDING DOMAIN AND A C-TERMINAL STEROID HINDING DOMAIN-1- SIMILARITY: BELCINGS TO THE NUCLEAR HORMONE RECEPTORS FAMILY NRI SUBFAMILY.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  SEQUENCE FROM N.A.
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                                                                                                                                                                                                                                                                                                    -1- DEVELOPMENTAL STAGE: FIRST DETECTED AT STAGE 14. INCREASES GRADUALLY AND PEAKS AT STAGE 57-61 THEN DECREASES TO THE L
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              laevis."
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   "Cloning and characterization of the vitamin D receptor from
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Amphibia: Bafrachia; Anura; Mesobatrachia; Pipoidea; Pipidae;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Bukaryota; Metazoa: Chordata; Craniala; Vertebiala; Euteleostomi;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Xenopus laevis (Atrican clawed trou)
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Enkaryota: Metazoa; Chordata; Craniata; Vertebrata; Enteleostomi;
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or send an email to license-isb-sib.ch).
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                                                                          VDR SK NK111.
                                                                                                                  01 FEB 1996 (Ref. 8), Last Sequence update)
80 MAY 2090 (Ref. 8), Last annotation update)
                                                                                                                                                                     of FER 1996 (Red. 48, Created)
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48188 MW;
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; CMASE25414FEESD5 CRC64;
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Best Local :
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Proc.
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MEDALNE 95062315; PubMed 7972109;
Elaroussi M.A., Prahl J.M., Deluca H.F.;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ZN_FING
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Zine tinge
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Pram: PE00104; hormone_rec; 1. Pram: PE00105; z1-C4; 1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 01141118
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              SECUENCE FROM N.A.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         PRINTS; PRO0350; VITAMINDR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  InterPro: IPRO01628; zf c4.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                InterPro: IPR000536; Hormone_rec_liq.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              EMBL: 012641; AAA56725.1; -
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         or send an email to license ist sib.ch)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       entities requires a license agreement (See http://www.isb-sib.ch/announce/
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         THE THE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          CHAIN
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 SMART: SM00399; ZnF_C4;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              SMART; SM00430; HoLI
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239 LLPHMADMSTYMFKGIISFAKVISYFRDLPIEDQISLLKGAAFELGQLRFNTVFNAETGT
                                                                                                                                                                                       135 ALKESEKPK ESEEQQKVINILLEAHHKTFDTTYSDFNKFRPPVRSKFSSSTATHSSSVV
                                                                                                                                                                                                                                                  133 TOTOPLOVOGLIEEORMMIRELMDAOMKTEDTTESHEKNERLE--
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[DOMAIN: COMPOSED OF THREE DOMAINS: A MODILATING N TERMINAL DOMAIN.

A DNA RINDING DOMAIN AND A C TERMINAL STEROID BINDING DOMAIN.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         FUNCTION: VDR MEDIATES THE ACTION OF VITAMIN D3 BY CONTROLLING
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     THE EXPRESSION OF HORMONE SENSITIVE GENES.
                                                           SUDESSEDSNIVEGSDAFGAFFETMEROMESNILDLSEESDESPSMNIELPH
                                                                                                                      SSGCELPESTQAPSREEAAKWSQVRKDL/SLKVSTQLRGEDGSVWNYKPFADSGGKETFS
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                                                                                                                                                                                                                                                                                                                                                                               ARLROPPRKGAGETTRKTRRQCQAGRLRKGLESGMKKEMIMSDEAVEERRALIKKKKSER 132
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Pred. No. 9.4e 55
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| FORTEC SDEAFEAFRE CRC64;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                C4 TYPE.
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                                                                                                                                                                                                                           DB 1; Length
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               STRAIN LEGHORN: TISSUE-Kidney:
MEDLINE-9722/369; PubMed-9956239;
Lu Z., Hanson K., Deluca H.F.;
"Cloning and origin of the two forms of chicken vitamin D receptor.";
Arch. Hiochem. Biophys. 349:99-106(1997).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        042392:
15-DEC-1998 (Rel. 37, Created)
15-DEC-1998 (Rel. 37, Last sequence update)
15-JUL-1999 (Rel. 38, Last annotation update)
                      Priam: PF00104; hormone_rec: 1
Priam: PF00105; zf-C4; l.
Priam: PF00105; zf-C4; l.
PRINTS: PR00047; zfR01DF1NGER
PRINTS: PR00350; VITAMINUR.
SMART: SM00430; H01.1: 1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Eukaryota: Metazoa: Chordata; Craniata; Vertebrata: Euteleosiomi;
Archosauria; Aves; Neoquathae; Gallitormes; Phasianidae; Phasiani
                                                                                                                                                                                                                                                                                                                                   entities requires a license agreement
                                                                                                                                                                                                                                                                                                                                                                                                                                     This SWISS-PROT entry is copyright. It is produced through a collaboration between the SWISS Institute of Bioinformatics and the EMBL outstation the European Bioinformatics Institute. There are no restrictions on its
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            for vitamin D.";
Science 235:1214-1217(1987).
-1- FUNCTION: VDR MEDIATES I
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              MEDLINE:87149040; PubMed-3029866; McDonnell D.P., Mandelsdort D.J., Pike J.W.,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     SEQUENCE FROM N.A
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                VDR_CHICK
                                                                                                                                                                                     InterPro: IPR000536: Hormone_rec_lig
InterPro: IPR001628; zt-c4.
                                                                                                                                                                                                                                                  EMBL: AF011356: AAB62579.1;
                                                                                                                                                                                                                                                                                                             or send an email to licensedisb-sib.ch).
                                                                                                                                                                                                                                                                                                                                                                    modified and this statement is not removed.
                                                                                                                                                                                                                                                                                                                                                                                                    the European Biointormatics Institute.
use by non-profit institutions as h
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Molecular cloning of complementary DNA encoding the avian receptor
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           427
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ALTERNATIVE INITIATION CODONS. (A AND B) ARE PRODUCED BY USE OF TISSUE SPECIFICITY: EXPRESSED IN KIDNEY AND INTESTINE. DOMAIN: COMPOSED OF THERE DOMAINS: A MODULATING N-TERMINAL DOMAIN. A DNA-BINDING DOMAIN AND A C-TERMINAL STEROID-BINDING DOMAIN. SIMILARITY: HELONGS TO THE NUCLEAR HORMONE RECEPTORS FAMILY
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           FUNCTION: VDR MEDIATES THE ACTION OF VITAMIN D3 BY CONTINE EXPRESSION OF HORMONE SENSITIVE GENES.
SUBCELLULAR LOCATION: NOCLEAR.
ALTERNATIVE PRODUCTS: TWO FORMS (A AND B) ARE PRODUCED
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                NRI SUBFAMILY
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Burmester J.K., Wiese K.J., Maeda N.
"Structure and regulation of the rat
receptor.":
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Mammalia; Butheria; Rodentia;
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FUNCTION: VDK MEDIATES FOR ACTION OF VITAMIN DE BY CONTROLLING
THE EXPRESSION OF HORMONE SENSITIVE GENES.
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TKEQV6LKKLNLHEEEHVLLMATC1VSF9RFGVQDAKLVEATQDRLSNTTQTY1RCRHPP
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01-FEB-1996 (Rel. 35, Last sequence update)
15-JUL 1999 (Rel. 36, Last annotation update)
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Receptor: Transcription regulation; DNA binding; Nuclear protein;
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SMART: SM00399; ZnF_C4;
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InterPro: IPRU01628; zf C4.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                        or send an email to licensewish sib.ch)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     use by non-profit institutions as long as its content is modified and this statement is not removed. Usage by and to
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   this SWISS PROT entry is copyright. It is produced through a collaboration between the SWISS Institute of Bioinformatics and the EMML outstation
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Gene
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        "Cloning and sequencing of the gene encoding the mouse vitamin by receptor.":
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      MEDIINE 95137405; PubMed 7835717;
Kamei Y., Kawada T., Eukuwatari T., ono T., Kato S., Sudimoto E.:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    the European Bioinformatics Institute. There are no restrictions on
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              88 PQTCRVCVDXATGYHENVMTCEGG/KGEFKKAMKRNAKLKCTPRKGACETTKKTKROCQAC 97
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              VDR_BOVIN
                                                                                                                                                                                                                                                         Ptam;
Pfam;
                                                                                                                                                                                                                                                                                                              HSSP; P03372; 1HCQ.
InterPro: IPR000536; Hormone_rec_liq.
InterPro: IPR001628; zt·C4.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             the European Bioinformatics Institute. There are no restrictions on use by non-profit institutions as long as its content is in no modified and this statement is not removed. Usage by and for commen
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    J. Dairy Sci.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                01-NNV-1997 (Rel. 45, Created)
01-NNV-1997 (Rel. 45, Created)
11-NNV-1997 (Rel. 45, Last sequence update)
15-JUL-1999 (Rel. 48, Last annotation update)
VITAMIN D3 RECEPTOR (VDR) (1,25-DIHYDHOXYVITAMIN D3 RECEPTOR)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                          entities requires a license agreement (See http://www.isb-sib.ch/announce/or send an email to license@isb-sib.ch).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          "Nucleotide sequence of the bovine vitamin D3 receptor.";
J. Dairy Sci. 79:1313-1315(1996).
-i- FUNCTION: VDR MEDIATES THE ACTION OF VITAMIN D3 BY CC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              MEDITINE -97034797; PubMed-8880453;
Neibergs H.L., Hosworth B.T., Reinhardt T.A.;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Eukuryota; Metazoa; Chordata; Craniata; Vertebrata;
Mammalia; Eutheria; Cetartiodactyla; Ruminantia; Pe
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            VDR OR NR111
                                                           PROSITE: PS00031; NUCLEAR_RECEPTOR: 1.
Receptor: Transcription regulation; DNA-binding; Nuclear protein;
                                                                                                                           SMART; SM00430; BOLL; 1.
SMART; SM00399; ZnF_C4; 1.
                                                                                                                                                                                          PRINTS; PRO0047; STROIDFINGER PRINTS; PRO0350; VITAMINDR.
                                                                                                                                                                                                                                                                                                                                                                                                                  EMBL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             between the Swiss Institute of Bioinformatics and the EMBL outstation
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        This SWISS-PROT entry is copyright. It is produced through a collaboration
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 SEQUENCE FROM N.A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Bovidae; Bovinae; Bos.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Bos taurus (Bovine).
                                 Zinc-tinger;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  363
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A DNA-BINDING DOMAIN AND A C-TERMINAL STEROID-BINDING DOMAIN
SIMILARITY: BELONGS TO THE NUCLEAR HORMONE RECEPTORS FAMILY.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     THE EXPRESSION OF HORMONE SENSITIVE GENES. SUBCELLULAR LOCATION: NUCLEAR.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              NR1 SUBFAMILY
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                                                                                                                                                                                                                                                         PF00104; hormone_rec; 1. PF00105; zi-c4; 1.
                                                                                                                                                                                                                                                                                                                                                                                                                     U50200; AAB01543.1: -.
   Phosphorylation
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   NUCLEAR RECEPTOR-TYPE
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RESULT 10

VUN_HUMAN

ID VIN_HUMAN

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DE VITAMI

GN VDR OR

CO ENKARY

OC NAMMAI

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DOMAIN
DOMAIN
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01-0CT-1989 (Rel. 12, Last sequence update)
20-AUG-2001 (Rel. 40, Last annotation update)
VITAMIN D3 RECEPTOR (VDR) (1,25-DIHYDROXYVIIAMIN D3
  Rae J.L., Shepard A.R.;
Submitted (SEP-1997) to the EMBL/GenBank/DDBN databases
                                                                                                                                                                                                                                                                                                                                                               Baker A.R., McDonnell D.P., Hughes M., Clisp T.M., McHaussler M.K., Pike J.W., Shine J., o'Malley B.W.; "Cloning and expression of full length cDNA encoding
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Eukaryota: Metazoa: Chordata; Craniata; Vertebrata;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae;
                                                      TISSUE-Lens epithelium;
                                                                                   SEQUENCE FROM N.A
                                                                                                                                                                                  Goto H., Chen K.S., Prahl J.M., Deluca H.F.;
"A simple receptor identical with that from intestine/1478 cells
                                                                                                                                                                                                                                        MEDLINE-92479083;
                                                                                                                                                                                                                                                                SEQUENCE FROM N.A
                                                                                                                                                                                                                                                                                                                    Proc. Natl. Acad.
                                                                                                                                                                                                                                                                                                                                            receptor
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                           SEQUENCE FROM N.A.
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                                                                                                                                 the action of 1.25-dihydroxyvitamin b/3 in Biophys. Acta 1132:103-108(1992).
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"A unique point motation in the famou vitamin D receptor chromosomal gene conters bereditary resistance to 1,25 dibydroxyvitamin D4.";
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Saijo E., Ito M., Takeda E., Mabbubul Boq A.H.M., Naito E., Yokota
Sone E., Pike J.W., Kuroda Y.:
"A unique mutation in the viramin D receptor dene in three Japanese
partients with vitamin D dependent rickets type II: utility of single
strand conformation polymorphism analysis for heterozygons carrier
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Science 242:1702-1705(1988).
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MEDITINE B3072761; PubMed 2849209;
Hondres M.R., Malloy P.J., Kiebaek D.G., Kesterson K.A., Pike J.W.,
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Miyamedo K., Kesterson E.A., Vamameto H., Taketani Y.
Tarsumi S., Indue V., Medita K., Takeda E., Pike J.W.
" ectural organization of the human vitamin D recept
                                                                                                                                                                                                                                                                                                         MEDIANE 9331563: PubMed 8392085;
Kristjansson K., Kut A.R., Hewison M., o'Riordan J.L.H., Hughes
"Two mutations in the hormone binding domain of the yitamin b
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Mailtoy P.J., Weisman Y., Feldman D.;
"Heroshtary Laipha,25 dihydroxyvitamin b resistant rickets resulting
trom a mutation in the vitamin b receptor deoxyribonneteic
acid binding domain.";
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   basis of steroid hormone receptor DNA-binding domain crystal structures.":
                                                                                         But A.R., Hewison M., Kristjansson K., Jarisi B., Hughes M. oʻRiordan J.L.H.;
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"A new point mutation in the deaxyribonnetere deld-binding domain of
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          MEDIANE 93163233; PubMed 8381883;
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SEQUENCE FRO
                                                        "Two mutalions causing vitamis D resistant rickets: modelling on the
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InterPro: JPR000536; Hormone\_rec\_liq InterPro: JPR001628; 21:04.

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MEDILINE 97120600; PubMed B961271;
Whittield G.K., Selznick S.H., Haussler C.A., Hsieh J. C.,
Sallidan M.A., Jurutka P.W., Thompson P.D., Lee S.M., Zerwekh J.E.,
Haussler M.R.;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  the vitamin D receptor that results in decreased attinity and cellular hyporesponsiveness."; J. Clin. Invest. 99:297-304(1997).
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                                                                                                                                                                                                                                                                                                                                                                                                                              or send an email to license isb sib.ch).
                                                                                                                                                                                                                                                                                                                                                                                                                                            entities requires a license agreement (See http://www.isb-sib.ch/announce/
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          CAUTION
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A DNA-BINDING DOMAIN AND A C TERMINAL STEROID HINDING DOMAIN.

A DNA-BINDING DOMAIN AND A CESSIVE DISORDER CHARACTERIZED BY SEVENE RICKETS, HYDRY AN AUTOSOMAL RECESSIVE DISORDER CHARACTERIZED BY SEVENE RICKETS. HYPOCALCEMIA AND SECONDARY HYPERPARALHYROLDISM.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 SUBBRITE
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RESULT NR L3 HU IN R L
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Best Local Similarity
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ZN_FING
ZN_FING
                                                                                                                                                                                  Q14994;
15-JUL-1999 (Rel. 38, Created)
15-JUL-1999 (Rel. 38, Last sequence update)
20-AUG-2001 (Rel. 40, Last annotation update)
0RPHAN NUCLEAR RETEPTOR NK113 (CONSTITUTIVE ANDROSTANE RECEPTOR)
                                                                        Enkaryota; Metazoa; Chordata; Craniata; Vertebrata; Enteleostomi;
Mammalia; Entheria; Primates; Catarrhini; Hominidae; Homo.
                                                                                                                          Homo sapiens (Human)
                                                                                                                                                                                                                                                                                                                                     NRI3_HUMAN
                                                                                                                                                                                                                                                                                                                                                                HUMAN
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Receptor: Transcription regulation: DNA-binding: Nuclear protein:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           SMART; SM00399; ZnF_C4;
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SEQUENCE FROM N.A
                                                NCBI_TaxID-9606;
                                                                                                                                                                             (ORPHAN NUCLEAR RECEPTOR MH67).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     197
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                PPPGSHLLYAKMIQKLADLRSLNEEHSKQYRCLSFQPECSMKLTPLVLEVFG
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   PLIKFQVGLKKLNLHEEEHVLLMA1CIVSPDRPGVQDAALIEAIQDRLSNTLQTYIRCRH
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     PMIKEHYMIKKIQIHEEEYVIMQAISIESPDRPGVIQHRVVDQIQEQFAITIKSYIECNR 38
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           RDLTSEDQIVLLKSSAIEVIMLRSNESFIMDDMSWTCGNQDYKYRVSDVTKAGHSLELIE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           RDLP (EDQ1SLLKGAAFELCQLRENTVENAETGTWECGRLSY - - - CLEDTAGGFQQLLLE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                MDSSSESNLDLSEEDSD-----DPSVTLELSQLSMLPHLADLVSYSIQKVIGFAKMIPGF
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     HHKTYDPTYSDFCQFRPPVRVNDGGGSHPSRPNSRHTPS--FSGDSSSSSSDHCITSSDM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   QMKTFDTTFSHFKNERLPGVLSSG----CELPESLQAPSREEAAKWSQVRKDLC-----
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      RLKRCVD1GMMKEF1LTDEEVQRKREMILKRKEEEALKDSLRPK-LSEEQQR1IA1LLDA
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           /FTId-VAR_004660
R -> 0 /TW -
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Score 750; DB 1; Pred. No. 2.8e-53;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           /FTId=VAR_004659.
F -> I (IN RICKETS).
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              /FTId=VAR_004658.
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                                                                                                                                                                                                                                                                                                                                                                                                        Matches 157;
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ZN_FING
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               PRINTS; PRO0047; STROIDFINGER PRINTS; PRO0350; VITAMINDR. PRINTS; PRO0546; THYROIDHORMR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                the European Bicinformatics Institute. There are no restrictions on use by non-profit institutions as long as its content is in no modified and this statement is not removed. Usage by and tor commen
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                MEDIINE-94158827: PubMed-8114692;
Baes M., Gulick T., Choi H.S., Martinoli M.G., Simha D., Moore D.D.:
"A new orphan member of the nuclear hormone receptor superfamily that
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        SMART: SM00399; ZnF_C4: 1.
PROSITE: PS00031: NUCLEAR_RECEPTOR;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Pfam; PF00104; hormone_rec; 1.
Pfam; PF00105; z1-C4; 1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                or send an email to licensewisb-sib.ch).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   entities requires a license agreement (See http://www.isb-sib.ch/announce/
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       This SWISS PROT entry is copyright. It is produced through a collaboration between the Swiss Institute of Bioinformatics and the EMBL patsiation -
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           -!- DOMAIN: COMPOSED BY A SHORT N-TERMINAL DOMAIN FOLLOWED BY THE BINDING, HINGE, AND LIGAND BINDING/DIMERIZATION DOMAINS.
-!- SIMILARITY: HELONGS TO THE NUCLEAR HORMONE RECEPTORS FAMILY
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Receptor; Tra
Zinc-finger;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                SMART; SM00430; HOLL;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        InterPro: 1PR000536; Hormone_rec_liq.
InterPro: 1PR001628; zf-C4.
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                                                                                                                                                                                                                                                          70
                                                                                                                                                                                                                                                                                                                                  11 CVVCGDQATGYHFNALTCEGCKGFFRRTVSKS1GPTCPF+AGSCEVSKTQRRHCPACKLO-69
                                                                                                                                                                                                                                                                                                                                                                    41 CRVCGDKATGYHENVMTCEGCKGFFRRAMKRNAKLRCFFRKGACEITRKTRRQCQACRLR 100
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   AND THE CYPSAA XENOBIOTIC RESPONSE ELEMENT.
SUBUNIT: HETERODIMER OF NKLIS AND RXR.
SUBCELLULAR LOCATION: NUCLEAR (BY SIMILARITY).
TISSUE SPECIFICITY: PREDOMINANTLY EXPRESSED IN LIVER.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              BETA 2 AND ALCOHOL DEHYDROGENASE 3 GENES. TRANSACTIVATES BOTH THE PHENOBARBITAL RESPONSIVE ELEMENT MODULE OF THE HUMAN CYPZIG GENE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                NR1 SUBFAMILY
YVLMQA I SLESPDRPGVLOHRVVDQLQEQFA I LLKSY LECNRPQFAHRFLELK I MAMIJ E
                                    VETCHIVI.NTT FCLOTONFLCGPLRYTTEDGARVGFQVEFTLEIJ.FHFHGTLRKLQLOEPE
                                                                        FELCQUEENTVENAETGTWECGRISYCLEDTAG-GPQQLLLEPMLKFHYMLKKLQLBEEE
                                                                                                                                                SVWNYKPPADSGGKEIFSLLPHMADMSTYMFKG11SFAKV1SYFRDLPIEDQISLLKGAA
                                                                                                                                                                                                                    TEDTTESHEKNERLPGVLSSGCELPESLQAPSKEEAAKWSQVRKDLCSLKVSLQLkGEDG
                                                                                                                                                                                                                                                          KCLDAGMRKDMILSAEALALRRAKQAQRRAQOTPVQ · · · · I.SKEQEELIRTLLGAHTK
                                                                                                                                                                                HMGTMFEQFVQFRPPAHLFIHHQ-PLPTLAP-
                                                                                                                                                                                                                                                                                                                                                                                                                          h 33.4%; Score 731; DB 1; Length 448;
Similarity 40.5%; Pred. No. 7.4e-52;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Transcription regulation; DNA-binding; Nuclear protein; er; Activator.

11 76 NUCLEAR RECEPTOR-TYPE.
                                                                                                                                                                                                                                                                                                                                                                                                          Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    348 AA;
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                                                                                                          ----VLPLVTHFADINTEMVLQVIKFIKDLPVFKSLPIHDQISLLKGAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    39558 MW; 92EAAD07D7D0B9DA CRC64
                                                                                                                                                                                                                                                                                                                                                                                                     59; Mismatches 100;
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Ouery Match
Best Local :
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Plans Pf501042, bornome rec; 1.
Plans Pf501045, 24 C4; 1.
Plans Pf50105; 24 C4; 1.
PRINTS: PF000047; STROTON RE.
PRINTS: PF000047; STROTON RE.
PRINTS: PF000048; STROTON RE.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   the European Rioinformatics Institute. There are no restrictions on its mase by non-profit institutions as long as its content is in no way modified and this statement is not removed. Usage by and to commercial outities requires a license agreement (See http://www.isb-sib.ch/announce/or send an email to license-isb-sib.ch).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         "Sexually dimorphic nuclear transforation of receptor CAE induction of CYPZH deno by phendarbital in rat livers."; Submitted (MAE 1999) to the EMHL/Genkank/NDBJ databases.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   20 AUG 2001 (Red. 40, freated)
20 AUG 2001 (Red. 40, Last sequence update)
20 AUG 2001 (Red. 40, Last annotation update)
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                                                                                                                                                                                                                                                            Receptor: Transcription regulation; DNA binding: Nuclear protein; Zinc Linder: Activator.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               This SWISS PROT entry is copyright. It is produced through a collaboration between the SWISS Institute of Bioinformatics and the EMBL outstation
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ORTHAN NUTLEAR RETEPTOR NELLS (CONSTITUTIVE ANDROSTANE RECEPTOR)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        NRI + RAT
                                                                                                                                 SEQUENCE
                                                                                                                                                                                                                                                                                                                                                      SMART: SM004-00; HOLL: 1.
SMART: SM00300; ZnF 04; 1.
                                                                                                                                                                                                                                                                                                                                                                                                                        SHANDSHOP (STATE) (949) ORBIT (STATE)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Yoshinari K., Sueyoshi I., Moore K., Negishi M.;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              STRAIN WISTAR KYOLO, AND FISCHER; CISSUE Liver
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  SECURENCE FROM N.A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              NCBI LIXID 10116;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Mammalia: Entheria: Rodentia: Schurognathi:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Bukaryota: Metazoa: Chordata: Craniata: Vertebrata: Buteleostomi;
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                                                                                                                                                                                                                                                                                                                           PROSTIES PSOOBT; NUCLEAR RECEPTOR; 1
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                                                                                                                                                                                                                                  DNY RING
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   Tomal Similarity
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             SHIP TELLIHAR LOWATION: NUTLEAR (BY SIMILARTTY).

SHIP TELL NUTLEAR (BY SIMILARTTY).

SIMILARITY: BELOWAS TO THE NUTLEAR HORMONE RESERVORS FAMILIA.

SIMILARITY: BELOWAS TO THE NUTLEAR HORMONE RESERVORS FAMILIA.
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                                                                                                                                 40922 MW;
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   PLMOEL 408
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                                                                                                                                                                                                                           NUCLEAR RECEPTOR TYPE
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                                 Length 358;
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                                                                                                                                                                                                                                                                                                                                 "P450 deno induction by structurally diverse xenochemicals: central role of nuclear receptors CAK, EXE, and PPAK.";
Arch. Biochem. Biophys. 459:11-24(199).
1: SHBONIT: HETERODIMER OF NRITE AND EXE.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             15-301-1999 (Ref. 48, Created)
15-301-1999 (Ref. 38, Last sequence update)
20-A00-2001 (Ref. 40, Last annotation update)
0RPHAN NUCLEAR RECEPTOR NRITE (CONSTITUTIVE ANDROSTANE RECEPTOR)
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MCUSE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Choi H.-S., Chung M., Tzameli I., Simba D., Lee Y.-K., Seol
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Bukaryota: Metazoa: Chordata: Chaniata: Vertebrata: Enteleostomi:
Mammalia: Entheria: Rodentia: Schurognathi: Muridae: Murinae: Mus
                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Waxman b.J
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  MEDIJINE 99893281; PubMod 10462436;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       FUNCTION.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          hormone receptor CAR."
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               "Differential transactivation by two isoforms of
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      MEDIJINE-97442417;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                SEQUENCE FROM N.A. (ISOFORMS CARL AND CARL)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Mus musculus (Mouse)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Biol. Chem. 272:23565-23571(1997)
                              BINDING, HINGE, AND LIGAND BINDING/DIMERIZATION ROMAINS. SIMILARITY: BELONGS TO THE NUCLEAR HORMONE RECEPTORS FAMILY.
                                                                                                                                                                ALTERNATIVE PRODUCTS: 2 ISOFORMS; CART (SHOWN HERE) AND CAR2: A PRODUCED BY ALTERNATIVE SPLICING, CARZ DOES NOT SERM TO ACT AS TRANSACTIVATOR, IT LACKS THE C TERMINAL PORTION OF THE LICANUBINDING/DIMERIZATION DOMAIN.
                                                                                               TISSUE SPECIFICITY: PREDOMINANTLY EXPRESSED IN LIVER.

DOMAIN: COMPOSED BY A SHORT N TERMINAL DOMAIN FOLLOWED BY THE DNA
ATTEMPTERS LAN
                                                                                                                                                                                                                                                                                                      SUBSELLULAR LOCATION: NUCLEAR (BY SIMILARITY)
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Best Local Similarity
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Piam: PF00105; zf-C4; 1.
PKINTS: PK00047: STROHDEINGER.
PKINTS: PK00350: VITAMINDE.
PKINTS: PK00398: STROHORMONER.
PKINTS: PK00398: STROHORMK.
 P55055; Q12970;
01-0CT-1996 (Rel
01-0CT-1996 (Rel
20-AUG-2001 (Rel
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  F: 'IIE: PS00031; NÜCLEAK_RECEPTOR: 1.

Rece ptor: Transcription regulation; DNA-binding; Nuclear protein;
Zin-'Itoger; Activator; Alternative splicing.
DNA_HIND 21 86 UNCLEAR RECEPTOR-TYPE.
ZN_FING 21 41 C4-TYPE.
ZN_FING 57 81 C4-TYPE.
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MGD; MGI:1346307; Nr1i3.
InterPro; IPR000536; Hor
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SMART: SM00399; ZnF_C4:
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                                                                       NKH2_HUMAN
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MISSING (IN ISOFORM CAR2).
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"Ubiquitous receptor: a novel receptor that modulates gene activation by retinoic acid and thyroid hormone receptors.";
Submitted (SEP-1994) to the EMBL/GenBank/DDBJ databases.
-i- FUNCTION: ORBIAN RECEPTOR, BINDS PREFERENTIALLY TO DOUBLE-STEANDED OLIGONUCLEOTIDE DIRECT REPEARS HAVING THE CONSENSUS HALF SITE SEQUENCE 5"-AGGCA-4" AND 4-NI SPACING (DR-4).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             modified and this statement is not removed. Usage by and for commercial entities requires a license agreement (See http://www.isb-sib.ch/announce/or send an email to license@isb-sib.ch).
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SMART; SM00359; ZnF_C4; 1.
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Ptam; PF00105; zf C4; 1.
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InterPro; IPR001628; z1-C4.
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EMBL: 014534;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           -:- SUBUNIT: FORMS A HETERODIMER WITH RXR.
-:- SUBCELLULAR LOCATION: NUCLEAR (POTENTIAL).
-:- TISSUE SPECIFICITY: ORIGINAL OUS.
-:- SIMILARITY: BELONGS TO THE NUCLEAR HORMONE RECEPTORS FAMILY
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            SEQUENCE OF 7-461 FROM N.A.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            MEDITINE 95011628; PubMod 7926814;
Shinar D.M., Endo N., Rutledge S.J., Vogel R.,
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AAA58594.1;
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Pred. No. 8.6e-31;
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                                                                                                  Mismatches
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SHBHITON, ORDINAN RECEPTOR, INDERACTION WITH RXK SHIPES RXK FROM
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THS BOLE AS A SILENT DAYA BINDING PARTNER TO AN ACTIVE LIGAND-
THOUS DEFINED BY DIRECT REPEATS OF TWO SIMILAR HEXANDOLOGIUS HADDEN
SITES SPACED BY DIRECT REPEATS OF TWO SIMILAR HEXANDOLOGIUS HADDEN
SITES SPACED BY FORK NUCLEOTIDES, LKXA BLAYS AN IMPORTANT ROLE IN
                                                        the European Ricinformatics Institute. There are no restrictions on its use by non-profit institutions as long as its content is in no way modified and this statement is not removed. Usage by and for commercial
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               SEQUENCE FROM N.A.
STEALN 129/SVJ; TISSHE LIVET;
MEDLINE 20156/73; PubMed 16675617;
MEDLINE 20156/74; PubMed 16675617;
Alberti S., Stellensen K., Gastaltsson J. A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Enkargota; Metazoa: Chordata: Ctaniata: Vertebrata; Enteleostomi:
Mammalia: Entherma; Rodentia: Sciurognathi: Muridae; Murinae; Mus.
NCRI TaxID 10090;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                40 MAY 2000 (Rel. 49, Created)
20 AUG 2001 (Rel. 40, Last sequence update)
20 AUG 2001 (Rel. 40, Last amonation update)
0XYSTEMOLS RECEPTOR LXK ALDUA (LIVEK X RECEPTOR ALDUA) (NUCLEAR ORDUAN
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                "Structural characterisation of the monse nuclear oxysterol receptor genes LXRalpha and LXRheta.";
                   or send an email to licensesisb sib.ch).
                                       entitles requires a license agreement (see http://www.isb-sib.ch/announce/
                                                                                                                        This SWISS PROT entry is copyright. It is produced through a collaboration between the Swiss Institute of Bioinformatics and the EMBL outstation -
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Plam; PF00105; zt C4; L.
PRINTS; PR00047; STROIDFINGER.
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SMART: SM00499; ZDF C4: 1.
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EMBL: AF085745; AAD16050.1;
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SEIWLV 443
                                                            QHTYVEALHAYVSINHPH: DKLMEPRMLMKLVSLKTLSSVHSEQVFALKLQDKKLFPLL 4×7
                                                                                                                             NREDEAKAGIQVEETINETEEESRAMNELQI.NDAEEALLIATSTESADRENVQDQIQVEKI.
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                                                                                                                                                                                                                                                                                                                         VSPRVSSPPQVLPQLSPEQLGM1EKLVAA0000CNRRSES
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                                                                                             QEQUATTLESY LECNREOPARKELFI.K LMAMLITEPAT
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                                                                                                                                                                                                                                                                                                                                                      RIGIOPLAYOGLTEEORMMIKELMDAQMKTEDTTESHEKNERLIGVLSS&TELPESI 188
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12;

Search completed: March 2, 2002, 02:43:13 Job time: 343 sec

EMBL: AJI32599; CAB51952.1;

Gendore version 4.5 Copyright (e) 1993 + 2000 Compugen Ltd.

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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

## SUMMARIES

Result No.	Score	Query Match	o Onery Match Length DB	D <b>33</b>	ID	Description
-	2167	99.1	473	4	Q9UNW4	09unw4 homo sapien
2	2158	98.7	457	4	Q9UJ26	homo
J.	2156	98.6	434	Δ.	<u>0</u> 90J27	homo
4	1938.5	88.6	420	~	Q9UJ23	_
'n	1936.5	æ. 5	347	4-	Q9UJ24	DOILO FOUND
2	1881	84.6	474	£	Q90J25	homo
7	1700.5	77.8	411	Φ	Q9TU02	Q9tu02 oryctolagus
œ	1631,5	74.6	342	42	⊕90J22	Q9uj22 homo sapien
ç,	922.5	42.2	386	_	091839	091839 xenopus Lae
10	922.5	42.2	388	_	Q9DF24	
11	876.5	40.1	168	_	09DFH3	Q9dfh3 qallus qall
12	771	35.3	420	_	Q91B73	Q9ib73 paralichthy
13	748.5	34.2	425	_	Q91B74	Q9ib74 paralichthy
14	746	34.1	453	1	Q9PTN2	Q9ptn2 brachydanio
15	536.5	24.5	124	_	Q9CRZ0	
16	453	20.7	518	S	076246	076246 uca puqilat
17	434.5	19.9	784	ហ	Q9GPH1	Q9qphl calliphora
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424.5 19.4 472 4 092943 413.5 18.9 881 5 099VK8 413.5 18.9 881 5 092VK8 410.5 18.8 541 5 092095 410.5 18.8 541 5 092095 410.5 18.4 491 5 092095 401 18.3 454 11 062641 402.5 18.4 491 5 092095 401 18.3 454 12 099523 390.5 17.9 457 13 099523 387.5 17.7 444 5 044337 387.7 7 560 5 044337 388.7 17.7 570 5 044337 386 17.6 444 13 093291 385.5 17.6 541 1 093633 385.5 17.6 541 1 093633 385.5 17.6 541 1 093633 385.5 17.6 541 3 093272 385.5 17.6 541 3 093271 385.5 17.6 541 3 093633 382.5 17.6 541 093633 383 17.5 452 11 093633 384 17.4 455 13 094155 385 17.4 555 12 045200 387.7 17.3 582 12 095593 387.7 17.3 582 12 095673 094077 aulius daily	45	44	ند	4.2	41	40	39	8.	7.7	36	ي ن	34	ندا	3.2	31	30	29	28	27	26	25	24	23	22	21	20
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## ALTONMENTS

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SEQUENCE 473 AA; 53899 MW; 4049D23C9B9D3O16 CK064;	own-binding; wherear protein; weeepror; franscription requiation; Zinc-finger.		SMART: SMe0399; ZDF_C4: 1.	SMART: SM00430; HOLI; 1.	PRINTS: PRO0047; STROIDFINGER.	PRINTS: PRO0398; STRDHORMONER,	Pram; PF00105; zf-C4; 1.	Pfam: PF00104: hormone_rec: 1.	InterPro: IPR001628; z1-c4.	InterPro: 1PR001723; Strdhormone, receptor.	InterPro: IPR000546; Hormone_rec_hiq.	HSSP: P10826; JHRA.	EMRI AF084644 AAC64557 1 -	- I - SIMILARITY: TO CA-TYPE STEROID RECEDIOR ZINC FINGER FAMILY	- I SUBCELLUIAR LOCATION NECLEAR (BY SIMIL ARITY)	Proc Nat   Acad Sci   S A 95-12208-12214719481		"Identification of a human nuclear receptor defines a new signaling	Borkonstam A.;	Sydow:Backman M., Ohlsson R., Postlind H., Blomquist P.,	Bertilsson G., Heidrich J., Svensson K., Asman M., Jendeberg L.,	MEDLINE-98445350; PubMed=9770465;		SEQUIENCE FROM N.A.			Primates: Catarrhini: Hominidae	Eukarvota: Motazoa: Chordata: Craniata: Vortebrata: Euteleostomi:	Homo sapions (Human).	ORTHAN NOCLEAR RECEIVER.	OI-JUN-2001 (IrEMBLIE). 1/, Last annotation update)	(TrEMBLrel, 13,	01-MAY-2000 (TrEMBLrel, 13, Created)		Q9UNW4 PRELIMINARY; PRT; 473 AA.	2.5	LT 1

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Of MAY 2000 (TERMICLE), 13, Last sequence update)
Of JUN 2001 (FERMICLE), 17, Last annotation update)
NUCLEAR HORMONE RECEPTOR PREF.C.
PROSTIE: PSBOURL: NUCLEAR RECEPTOR:
             SMART: SMORRED; ZhFj:4; 1
                                   SMART: SMOO430; BOLL:
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InterPro: 186001648; Zt 64.
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95.4%; Pred. No. 6e-179;
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Zinc finger.
SEQUENCE 457 AA; 52145 MM; 812FBH354H56784E CRC64:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Q90J27;
01:MAY 2000 (TrEMHLTCL 13, Greated)
01:MAY 2000 (TrEMHLTCL 13, tast sequence update)
01.JBN 2001 (TrEMHLTCL 17, tast annotation update)
NUCLEAR HORMONE RECEPTOR PRELA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          0'911.127
                                                                               InterPro: IPR080536; Hormone rec lia.
InterPro: IPR081723; Strdholmone receptor
InterPro: IPR081628; zf c4.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                "Identification of a novel protein isotorm of the human nuclear hormone receptor PXR/SXR and localization to chromosome 3q12.1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Homo sapiens (Human)
Piam: PF00104; hormone ree; l.
Piam: PF00105; zi C4; l.
                                                                                                                                                                                                            HSSP; P10826; [BRA.
                                                                                                                                                                                                                                               EMHI: AJ009936; CAB55489.1:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Vissing H.:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Heard D.J., Holloway J., Hansen C., Tommerup N., Aadaard L.,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    SEQUENCE FROM N.A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    NCHI_Fax1D 9606;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Mammalia; Entheria; Primales; Catarrhini;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Bukaryota: Metazoa: Chordata: Cianiata: Vertebrata: Buteleostomi:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 LISSUE -LIVER:
                                                                                                                                                                                                                                                                                           F. SURCELLULAR LOCATION: NOTHEAR (BY SIMILARITY)

F. SURCELLULAR LOCATION: NOTHEAR (BY SIMILARITY)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      444 ATPLMQELFG11GS 457
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      401 APPLMOBLECTICS 414
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      204 GCELPESIĞAPSKEEAAKWSQVKKOLTSLXVSLQLRGEPGSVWNYKFPADSGGKETESLL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      241 PHMADMSTYMEKGLISEAKVISYERDLEIDLEDQLSILLKGAAFELCQLKENTVENAETGTWE
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ROL CORLSYCLEDIAGGFQQLLLEPMLKFHYMLKKLQLHEEEYVLMQALSLESPDRPGVLQHR
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Hominidae; Homo.
                                                                                                                                                                                                                                                                                                    ZINC FINGER FAMILY
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Best Local :
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Q90.123;
01 MAY 2000 (TrEMBLrel. 13, Greated)
01-MAY 2000 (TrEMBLrel. 13, Last sequence update)
01-JUN-2001 (TrEMBLrel. 17, Last annotation update)
NUCLEAR HORMONE RECEPTOR PRR2-C.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     SMART; SM00430; HOLL; 1.
SMART; SM00399; ZOF_C4: 1.
PROSITE: PS00031; NUCLEAR_KECEPTOR; 1.
HSSP;
                                                                                                                                                                                                                                                                                                                                                                         Eukaryota; Metazoa: Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
                                                                                                                                                                                                                                                                                                                                                                                                   Homo sapiens (Human)
Eukaryota; Metazoa;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         090.123
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SEQUENCE /
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                         -1- SUBCELLULAR LOCATION: NUCLEAR (BY SIMILARITY)
-1- SIMILARITY: TO C4-TYPE STEROID RECEPTOR ZINC
EMBL; AJ009937: CAB55493.1; -.
                                                                                                                                                                                                                                                                                              SEQUENCE FROM N.A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                PKK2.
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                                                                                                                                                           hormone receptor PXR/SXR and localization
                                                                                                                                                                                  "Identification of a novel protein isoform of the human nuclear
                                                                                                                                                                                                                   Vissing H.;
                                                                                                                                                                                                                                       Heard D.J., Holloway J., Hansen C., Tommerup N., Aagaard
                                                                                                                                                                                                                                                                        TISSUE LIVER
                                                                                                                                                                                                                                                                                                                                              NCBI_TaxID-9606;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       CKGFFRRAMKKNAKLKCPFFKGACEITRKTRROCQACKLRKCLESGMKKEMIMSDEAVEE 120
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 PHMADMSTYMFKG11SFAKVISYFRDLP1EDQ1SLLKGAAFELCQLRFNIVFNAETGTWE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      GCELPESIQAPSREEAAKWSOVRKDL/SLKVSLQLRGEDGSVWNYKPPADSGGKEIFSLL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           RRALIKRKKSERTGTQPLGVQGLTEEQRMMIRELMDAQMKTFDTTFSHFKNFRLPGVLSS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                MEVRPKESWNHIDFVHCEDTESVPGKPSVNADEEVGGPQICRVCGDKATGYHFNVMTCEG
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  P10826; 1HRA
                                                                                                    . Hum. Genet. 0:0-0(0)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         PRELIMINARY;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   98.6%;
94.7%;
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Pred.

    Mismatches

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No. 4.8e-178;
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                                                                                                                                                              6
                                                                                                                                                              chromosome
                                                    FINGER FAMILY
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Best Local Similarity 86.4%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Matches 375;
                                   neard D.J., Holloway J., Hansen C.,
Vissing H.:
                                                                                                                                                                                     O9HIZ4:
01-MAY-2000 (TrEMBLrel. 13, Created)
01-MAY-2000 (TrEMBLrel. 13, Last sequence up
01-JUN-2001 (TrEMBLrel. 17, Last annotation
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           PROSITE; PS00031: NUCLEAR_RECEPTOR; 1.
DNA-binding; Nuclear protein; Receptor; Transcription regulation;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       SMART: SM00399; ZDF_C4;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 PRINTS; PRO039H; STROHORMONER PRINTS; PRO0047; STROHDFINGER
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Ptam; PF00104; bormone_rec; l. Ptam; PF00105; zt:C4; l.
hormone receptor PXR/SXR and -13.3.";
            "Identification of a novel protein isotorm of the human maclear hormone receptor PXR/SXR and localization to chromosome 3q12.1
                                                   Heard D.J., H
                                                                                                                    Homo sapiens (Human).
Eukaryota: Metazoa; Chordata; Craniata; Vertebrata: Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
                                                                                                                                                                                                                                             Q911J24
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     InterPro: IPR000536; Hormone_rec_liq.
InterPro: IPR001723; Strdhormone_receptor
InterPro: IPR001628; zf c4.
                                                                              SEQUENCE FROM N.A
                                                                                                         NCBI_TaxID 9606;
                                                                                                                                                              PRR2.
                                                                                                                                                                         NUCLEAR HORMONE RECEPTOR PRR2-A.
                                                                                                                                                                                                                                                                                                                407
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                                                                                                                                                                                                                                             PRELIMINARY;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Score 1938.5; DB 4
Pred. No. 2.8e-159;
0; Mismatches 2;
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                                                                                                                                                                                                   sequence update)
                                                  Tommerup N.,
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                                                                                                                                                                                      update)
                                                     Aagaard L.,
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            : SHMCEHJHAR LSCAFION: NHCLEAR (RY SIMILARITY).

: SIMILARITY: TO CA TYPE STEROID RECEPTOR ZINC FINGER FAMILY.

EMBG. ALMOUSED: CARGADZ.1;

BESEC PROBZO: 1HRA.
                                                                                                                            OF MAY 2000 (TERMELT-1, 18, Created)
OF MAY 2000 (TERMELT-1, 17, Last sequence update)
OF LIN 2001 (TERMELT-1, 17, Last amostation update
NDCTEAR HORMONE RETERIOR FRRIB.
                                                                                                                                                                                            5471 ING
                                                                                                                                                                                                           9.27716.0
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SMART; SM00 (9): ZhF (4); 1.
PMOSTIE; PS00H3T; NUCLEAR RECEPTOR; 1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                PRINTS: PRODUCTS: STROIDFINGER.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Pham; PEOULOS; hormone ree; l. Pham; PEOULOS; zt c4; l.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               InterPro: 1PR091723; Stidhormone receptor
InterPro: 1PR001628; zt c4.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               InterProp 108000536; Bormone ree lig.
                                                               Mammalia; Butheria; Primates; Catarrhini; Hominidae; Homo
                                                                            Eukaryota: Metazoa: Chordata: Cruniata: Vertebrata: Euteleostomi;
                                                                                             Homo Sapiens (Human)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Zine tinger
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  DNA binding: Nuclear protein: Receptor: Iranscription regulation:
CISSUE LIVER
              SEQUENCE FROM N.A.
                                                NOBL LIXID 9606;
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                                                                                                                                                                                                                                                                                       STATE STREET
                                                                                                                                                                                                                                                                                                                     AFFIMORIFELIES 414
                                                                                                                                                                                                                                                                                                                                                       VVDOLOEQPATTLKSYTECNREOPAHRELFLK IMAMLEELKSTNAQHTQRLLRTQDTHPF 383
                                                                                                                                                                                                                                                                                                                                                                      VVIGILOEGEALTELKSY LEC'NKEODRAHRELEEK MAMILTE --
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                                                                                                                                                                                                                                                                                                                                                                                                                    PERLISYPLED FAGGEQQUILLED MILKETIYMLKKI.QIJHEEEYVI.MQA I SIJESDIDKEGVI.QHK
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                                                                                                                                                                                                           PRELIMINARY;
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                                                                                                                                           update)
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NK112 OF PXE PREGNANE X RECEPTOR

01-MAY 2000 (TrEMBLEEL 13, Created) 01-MAY-2000 (TrEMBLEEL 13, Last sequence up 01-JUN-2001 (TrEMBLEEL 17, Last annotation

sequence update)

mpdate)

796163

PRELIMINARY;

T.T.

Q91H02;

oryetolagus emienius (Kabbit). Bukaryota; Metazoa; Chordata; Chardata; Vertebrata; Euteleostomi; Mammalia; Entheria; Lagomorpha; Leporidae; oryetolagus.

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STRAIN BREED NEW ZEALAND WHITE KARBIT: DISSUE KIDNEY

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Best Local Similarity
Matches 358; Conser
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"Identification of a novel profein isotom of the human nuclear
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Zine tinger.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            EMPG.: AJ009936; CAB55491.1;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 DNA binding; Nuclear protein; Receptor; Transcription regulation;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   InterPro: IPR000536;
InterPro: IPR001723;
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                                                        461 DIMPEAUPLMQELFGITGS
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                                                                                                                                                                                                                                                                                                                                                  EAVEERRALI KRKKSEKTOTOP OVOOLT BEOKMMI RELMDAQMKT FOT TESHEKNERLE 120
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                                                                                                                                                                                                                                             Hum. Genet.
                                                                                   -FAIRLMOELFGITGS 414
                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         379 AA; 43692 MW; 8F7B7AFA13E45036 CRC64
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94.5%;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                   O; Mismatches
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Best Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       rPro; 1PR000536; Hormone_rec_liq.
II. rPro; 1PR001723; Strdhormone_receptor
InterPro; 1PR001628; Z1-C4.
Ptam; PF00104; hormone_rec; 1.
Ptam; PF00105; Zf-C4; 1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       MOI. Endocripol. 14:27-39(2000).
-!- SÜBCELLÜLAR LOCATION: NUCLEAR (BY SIMILARITY).
-! SIMILARITY: TO C4-TYPE STEROID RECEPTOR ZINC FINGER FAMILY
EMBL; AF182217; AAD54426.1; -.
EMBL; AF188476; AAF31165.1; -.
HSSP: P10826; 1HRA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Jones S.A., Moore L.B., Shenk J.L., Wisely G.B., Hamilton G.A., McKee D.D., Tomkinson N.C., LeCluyse B.L., Lambert M.H., Willson T.M. Kliewer S.A., Moore J.T., The prequame X receptor: a promiscuous xenobiotic receptor that has diverged during evolution."
         09HJ22:
01-MAY-2000 (TrEMBLEEL 13, Created)
01-MAY-2000 (TrEMBLEEL 13, Last sequence up
01-JUN-2001 (TrEMBLEEL 17, Last annotation
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         SMART: SM00430: HOL1: 1.
SMART: SM00399: ZnF_C4: 1.
PROSITE: PS00031: NUCLEAR_RECEPTOR: 1.
                                                                 040175
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SEQUENCE
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       MEDLINE-20092326; PubMed 10628745;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Submitted (SEP-1999) to the EMBL/GenBank/DDBJ databases
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Savas U., Wester M.R., Griftin K.J., Johnson E.F.;
"The rabbit prequame x receptor is activated by rifampicin.";
 NUCLEAR HORMONE RECEPTOR PRK2-B.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          DNA binding: Nuclear protein: Receptor; Transcription regulation;
                                                                                                                                                                                                                                                                                                   205 DLCSLKVSLQLRGEDGSVWNYKPPADSGGKEIFSLLPHMADMSTYMFKGIISFAKVISYF
                                                                                                                                                                                                                                                                                                                                                                   145 EEQRMMIRELMDAQMKIFDTTFSHFKNERLPGVLSSGCELPESLQAPSREEAAKWSQVRK 204
                                                                                                                                                          385 AHRELELKIMAMLIE---
                                                                                                                              362 THRELELKIMAVLTELRIINAQHTQRLLRIQDTHPEATPLMRELESTT
                                                                                                                                                                                                                                                                                                                                                                                                           85 ELTEKTEROCQACELEKCLESGMKKEMIMSDEAVEERRALIKEKKSERTGTOPLGVOGLT 144
                                                                                                                                                                                                                                                                                                                                                                                                                                                                           25 GKPSVNADEEVGGPQICRVCGDKATGYHFNVMTCEGCKGFFRKAMKRNARLRCPFRKGAC
                                                                                                                                                                                                                                                                                                                                                                                                                                                 3 GKPTISADEE-EGPQTCRVCGDKANGYHENVLICEGCKGFFRTVKRNAKLRCPFRKGAC 61
                                                                                          œ
                                                                                                                                                                                 KEHYMLKKLQLHKEEYVLMQA1SLESPORPGVVQREVVDQLQERFAITLKAYIEGSRPQP
                                                                                                                                                                                                         KEHYMLKKLQLHEEEYVLMQAISLESPORPGVLQHRVVDQLQEQFAITLKSYIECNRPQP
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                                                                 PRELIMINARY;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    77.8%; Score 1700.5; DH 6
78.7%; Pred. No. 9.7e-139;
7ative 33; Mismatches 33;
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091839;
01.NOV-1995 (TrEMBLrel. 01, Created)
01.NOV-1995 (ILEMBLrel. 01, Last sequence update)
01-NOV-1995 (ILEMBLrel. 17, Last annotation update)
01-JUN-2001 (ILEMBLrel. 17, Last annotation update)
0RPHAN NUCLEAR RECEPTOR OF STEROID/THYROID SUPERFAMILY.
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InterPro: IPRODUS36; Hormone_rec_liq.
InterPro: IPRODUS36; Strdhormone_receptor.
InterPro: IPROD1628: z1-C4.
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1: SUBCELLULAR DOCATION: NUCLEAR (BY SIMILARITY)
-!- SIMILARITY: TO C4-TYPE STEROID RECEPTOR ZINC EMBL: AJ009937: CAH55494.1: -.
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Pfam; PF00105; zf-C4; 1.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Vissing H.;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Heard D.J., Holloway
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SEQUENCE
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SMART; SM00399; ZnF_C4; 1.
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Mammalia; Eutheria; Primates; Catarthini; Hominidae; Homo.
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84.7%; Pred. No. 7e-133;
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Best Local Similarity 46.6%; Pred. No. 1.4e 71;
Matches 194; Conservative 94; Mismatches 99; Indels 69; Gaps
                                                                                                     of MAR 2001 (FrEMBLE). 15, froated)
of MAR 2001 (FrEMBLE). 15, tast sequence update)
of JUN 2001 (FrEMBLE). 17, tast annotation update)
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Eukaryotas Metazoas Chordatas Graniafas Vertebratas Enteicostomis
Amphibias Batrachias Anuras Mesobatrachias Pipoideas Pipodaes
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HSSP: P10826; THRA.
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Eukaryota: Metazoa; Chordata; Craniata; Vertebrata; Eutoleostomi;
                                                                          ORDIAN NUCLEAR RECEPTOR BAR BETA
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InterPro: 1PR001628; zt C4.
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                                       laevis (African clawed froq)
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Best Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Biochem, Biophys, Res. Commun. 0:0:0(2000),
! SUBCELLULAR LOCATION: NUCLEAR (BY SIMILARTY).
!! SIMILARITY: TO C4 PYTE STEROID RECEPTOR ZINC FINGER FAMILY
EMBJ. AF405201; AAIZ4910.1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Nishikawa J. I., Saito K., Sasaki M., Tomiqahara Y., Nishihara T.; "Molecular cloning and functional characterization of a novel nuclear receptor, similar to embryonic benzoate receptor BXR.";
                                                                                                        01 MAR 2001 (TrEMBLrel, 16, Created)
01-MAR-2001 (TrEMBLrel, 16, Last seq
01 JUN-2001 (TrEMBLrel, 17, Last anno
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SMART: SM00399; ZHF (4; 1.
PROSTIE: PS00031; NUCLEAR_RECEPTOR: UNKNOWN.1.
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NCBI JaxID 6355;
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InterPro: 1PR001723; Strdhotmone_receptor.
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                                                                                                                                                                                                                                                                                 329 FIESHREPSFONRLLYPKIMECLIEILKIINDIHSKQLMEIWDIQPDYTPLMREVFG
                                                                                                                                                                                                                                                                                                                    376 YIECNE POPAHRELELKIMAMIZIEF -
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   18 EDTESVEGKESVNADEEVGGEQTCKVCGDKATGYHENVMTCEGCKGEFRRAMKKNARLRC 77
                                                                                                                                                                                                                                                                                                                                                      SQQFLEPILRIHCMMTKLNLESEAYALMAIMALESSDRPGVSDCEKIQNLQEHIALMLKA
                                                                                                                                                                                                                                                                                                                                                                                         OUTLITED MEXERALIZATION THE EEXALWOATSTERD PLOAD OF WHAT LIKE 422
                                                                                                                                                                                                                                                                                                                                                                                                                                FAKMLPYFRSLATEDQTALLKGSVLEVOVTRFNRMENPKTNTWEGGAFTYNADDMTMAGF
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               PPGA · SLIPEQQIIF TTELVEAHTKIFDENE TFEKNER
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  PLOYCOLIEECRMMIRELMIAOMKTEDTTESHEKNERLEGYLSSGTELPESLQAPSKEEA 196
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         PF - QNSCVINKNNRRHOQACRIKKCIDIGMRKELIMSDEAVEQRRALIKRKQNLSLSPPT | 133
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            PERKGACEITRKTRRQCQACKLRKCLESGMKKEMIMSDEAVEERRALIKRKKS-ERTGTQ 136
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               EEEEDPONSOG FGEDEDDGEPKICKAOODRATGYHFNAMTOEGOKGFFRRAMKRNLRLSO
                                                                                                                                                                                                                                                                                                                                                                                                                                                                   FAKVISYERDEPIEDQISILKGAAFELCQURFNIVENAETGIWECGRUSYCLED-TAGGE 315
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           AKWSQVRKDLCSLKVSLQLRGEDRSVWNYKPPADSGGKETESLLPHMADMSTYMFKOTTS 256
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     388 AA; 44512 MW; 760A692E19B6E0D8 CR064;
                                                                                                                                                                                    PRELIMINARY:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        42.2%) Score 922.5; DB 13; Lenath 47.1%; Fred. No. 1.4e-71;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          RSPDPT - QDPQATS - - SEAFLMLPHISDLFTYMLKGVTS
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                                                                                                                                                                                                                                                                                   384
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10;

Gallus gallus (Chicken). Eukaryota: Metazoa: Chordata: Craniata: Vertebrata: Euteleostomi;

16, Last sequence update) 17, Last annotation update

update)

Archosauria; Aves; Neognathae: Galliformes; Phasianidae; Phasianinae;

XENOBIOTIC RECEPTOR. CXR.

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RESULT
091H73
AC 099
AC 099
AC 099
AC 099
CON V
CON V
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Query Match
Best Local Sim
Matches 188;
Paralichthys olivaceus (Flounder).
Eukaryota: Metazoa: Chordata: Craniata;
Actinopteryqii: Neopteryqii: Teleostei:
                                                                  091873;
01-001-2000 (TrEMBLrel. 15, Greated)
01-027-2000 (TrEMBLrel. 15, Last sequence up
01-JUN 2001 (TrEMBLrel. 17, Last annotation
VITAMIN D RECEPTOR A.
                                                                                                                                                            Ų91H73
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              SMART: SM00430: HOLL: 1
SMART: SM00399: ZnF_C4:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                PRINTS: PRO0398: STRDHORM NER
PRINTS: PRO0047: STROIDFINGER
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Ptam; PF00104; hormone_rec: 1.
Ptam; PF00105; z1=c4; 1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 to both mammalian prequame X receptor (PXR) and constitutive androstane receptor (CAR).":
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        -!- SIMILARITY: TO C4-TYPE STEROID RECEPTOR EMBL: AF276753; AAG18374.1; -
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Proc. Natl. Acad. Sci. U.S.A. 97:10769-10774(2000).
-!- SUBCELLSTAR LOCATION: NUCLEAR (BY SIMILARITY).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                androstane receptor
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Handschin C., Podvinec M., Meyer U.A.;
"CXK, a chicken xenobiotic-sensing orphan nuclear receptor, is related
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Pubmed-11005856;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Zinc-tinger
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           DNA binding; Nuclear protein; Receptor; Transcription regulation;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                PROSITE: PS00031; NUCLEAR_RECEPIOR: 1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         InterPro;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        InterPro;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           InterPro: IPR000536; Hormone_rec_liq
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           SEQUENCE FROM N.A
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            NCBI_TaxID-9031;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        133 TGTQPLGVQGLFERQRMMIRELMDAQMXTFDFTFSHFKNFR-----LPGVLSSGCELPE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       187
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Local Similarity
                                                                                                                                                                                                                                                       22
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                74
                                                                                                                                                                                                                                                                                    QEQFAITLKSY1ECNRPOPAHRELFLKIMAMLTEFATPLMO 406
                                                                                                                                                                                                                                                                                                                        TIKDGALAGFQQ1YLEPLLKFH1SLKKLRLHEAEYVLLVAMLLFSPDHASVTQRDFIDQL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      --AQP---GGLTAEQQELISILIAAHKRTEUSSESQFQHYQPAVRLGIPGPGS---QSPP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           HETCPETR-SCPITKAKRROCQACRLOKCLDVGMRKDMIMSEEALGRRRALRLORRLAQ- 121
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               DPDS-PGAQRCPNVTDVTEEEL---KVCAVCGDRATGYHFHVMSCEGCKGFFRRSILKGV 63
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  DTESVPGK---PSVN--ADEEVGGPQICRVCGDKATGYHENVMTCEGCKGFFRRAMKRNA 73
                                                                                                                                                                                                                                                   QEKVALTLKSYIDHRHPMPEGRELYAKLLILLTELQTLKME
                                                                                                                                                                                                                                                                                                                                                         CLEDIA-GGFQQILLEPMLKFHYMLKKLQLHEEEYVLMQAISLESPDRPGVLQHRVVDQL 365
                                                                                                                                                                                                                                                                                                                                                                                                                             STYMEKGIISFAKVISYEKDI.PIEDQISLIKGAAFELCQIRENTVENAETGTWECGRLSY
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   SLQAPSREEAAKWSQVRKDLCSLKVSLQLRGEDGSVWNYKPFADSGGKETFSLLPHMADM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            RLRCPFRKGACEITRKTRRQCQACRLRKCLESGMKKEMIMSDEAVEERRAL-IKRKKSER 132
                                                                                                                                                                                                                                                                                                                                                                                            STEMIQQVIKEAKEIPAERGLPIDDQISLLKGATLGICQIQENTVENEEINAWECGQHCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        IPR001723; Strdhormone_receptor.
IPR001628; zf-c4.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            391 AA; 43945 MW; 9A2063C92A1AF1BC CRC64;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Conservative
                                                                                                                                                              PRELIMINARY;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   40.1%;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Score 876.5; DB 14; Length Pred. No. 1.3e-67;
                                                                                                                                                            PRT :
                                                                                                                                                            420
Vertebrata: Euteleostomi:
Euteleostei: Neofeleostei
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                                                                                                           update)
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                                                                                      update)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Indels
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         186
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OC OC

091H74

PRELIMINARY;

PRT;

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Q91874; 01-007-2000 (TrEMBLrel. 15, Created) 01-007-2000 (TrEMBLrel. 15, Last sequence update) 01-008-2001 (TrEMBLrel. 17, Last annotation update) VITAMIN D RECEPTOR B.

Paralichthys olivacens (Flounder). Eukaryota: Metazoa; Chordata; Craniata;

Vertebrata: Euteleostomi:

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RESULI
091B74
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Matches 170;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Query Match 45.3%; Score 771; DB 13; Best Local Similarity 41.0%; Pred. No. 1.9e-58;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         SMART; SM00430; Holl; 1
SMART; SM00399; ZnF_C4;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Pfam; PF00104; hormone_rec; 1. Pfam; PF00105; zt-C4; 1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       -!- SIMILARITY: TO C4-TYPE STEROID RECEPTOR EMBL; AB037674; BAA95016.1; -
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              "Identification of cDNAs encoding two subtypes of vitamin D receptor in flounder, Paralichthys olivaceus.";
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Acanthomorpha: Acanthopteryqii; Percomorpha; Pleuronectilormes; Pleuronectoidei; Bothidae; Parallehthys.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         2 inc tinger
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      PROSITE: PS00041; NICLEAR_RECEPTOR: 1.
DNA-binding: Nuclear protein; Receptor; Transcription regulation;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               PRINTS; PRO0398; STROHORMONER. PRINTS; PRO0047; STROIDFINGER.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    InterPro: IPR001724; Stidhormone_receptor
InterPro: IPR001628; zf:C4.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 нiochem.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Suzuki T., Suzuki N., Srivastava A.S., Kurokawa T
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        MEDLINE-20200092;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            NCBI_TaxID 8255;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          InterPro; IPR000536; Hormone_rec_liq.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      364
                                                                                                                                              304
                                                                                                                                                                                319
                                                                                                                                                                                                                 244 PGFRDETAEDQIALLKSSAIETIMLRSNOSFSLEDMSWSCGGPDFKYCINDVTKACHILE
                                                                                                                                                                                                                                                     262
                                                                                                                                                                                                                                                                                         189
                                                                                                                                                                                                                                                                                                                            205
                                                                                                                                                                                                                                                                                                                                                                129
                                                                                                                                                                                                                                                                                                                                                                                                148 RMMIRELMDAQMKTEDTTESHEKNERLE---GVLSSGCELFESLQAPSREEAAKWSQVRK 204
                                                                                                       379 CNRPQPAHRELELKIMAMLTEE------
                                                                                                                                                                                                                                                                                                                                                                                                                                     70
                                                                                                                                                                                                                                                                                                                                                                                                                                                                       88
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          11 VGPDEFDRNAPRICGVCGDKATGFHFNAMTCEGCKGFFRRSMKRKASFTCPF-NGSCTIT 69
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              29
                                                                     IN--HPGGRILYAKMIQKLADLRSINEEHSKQYRSLSFQPEHSMQLTPLVLEVFG 416
                                                                                                                                            LLEPTAKEOVGTKKUNTHEEEHVILIMGTGTTSPDREGAODHVEAGOTODETEEVI?
                                                                                                                                                                                                                                                 SYFROLPIEDOISLLKGAAFELOOLKENTVENAETGTWEGG - KLSYGLEO TAGGEQUL
                                                                                                                                                                                                                                                                                       SV-DIKMNESNLLMMYQDGA --
                                                                                                                                                                                                                                                                                                                          DLCSLKV---SLQLRGEDGSVWNYKPPADSGGKETFSLLPHMADMSTYMFKGTTSFAKVI
                                                                                                                                                                                                                                                                                                                                                                ARMISSLVEAHHKTYDASYSDFSRFRPPVKEGPVTRSASRAASLHSLSDASSDSFNHSPE
                                                                                                                                                                                                                                                                                                                                                                                                                                   KONRRHCOACREKKCIDIGMMKEFILTDEEVQREKEMILKRKEEEAAREAMRPR-LNEEQ 128
                                                                                                                                                                                                                                                                                                                                                                                                                                                                     RKTRROCOACRURKCLESGMKKEMIMSDEAVEERRALIKRKKSERTGTOPLGVOGUTEEO 147
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            VNADE-EVGGPOTCRVCGDKATGYHENVMTCEGCKGFFRRAMKRNAKLRCPFRKGACETT
                                                                                                                                                                              LLEPMLKFHYMLKKLQLHEEEYVLMQAISLESPDRFGVLQHRVVDQLQEQFAITLKSYIE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      420 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Conservative
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               66; Mismatches 137;
                                                                                                                                                                                                                                                                                         -SSPDSSEENTKLSMLPHLADLYSYSTQKVIGFAKMI
                                                                                                        --ATTELMOBILEG 410
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Length 420;
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Best Tookal Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Shanki I., Shanki N., Shivastava A.S., Kurokawa T.; "Identification of chans encoding two subtypes of vitamin b receptor in flounder, paralichthys offivarents"; Hiochem. Brophys. Res. Commun. 270:40-4% (2000).

1. Subcladia Devation: Nucleak (BY SIMILARITY).

2. SUBCLARITY: To 24 type STEROID RESEPTOR ZINC FINTER FAMILY.

EMBL. ABO 2573: HAAUSHELT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Actinopherydi; Negherydi; Peleostei; Enteleostei; Neoteleostei;
Acanthorojba; Acanthopterydii; Percomorpha; Plogrometiformes;
Plenometoidei; Bothidae: Paralichthys.
NGG TaxID 8255;
 0007 AVM 16
0007 AVW (S
                                           ZNI460
                               CABLINE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  PRINTS: PRODUCT; STRUTCHNICK PRINTS: PRODUCT; STRUTCHNICK
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Pram; PEGG104; hormone rec; 1. Pram; PEGG105; 21 C4; 1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             MEDITNE 20200092; PubMed 1674302;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          PROSTIE: PSOUDEL: NUCLEAR RETEPTOR: I.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              InterProj (PROUL628; 21-04)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Intertros (PROULZ3; Stidhoumone receptor.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          InterProj (PR000536; Hormone rec'liq
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       DNA binding: Nuclear protein; Receptor; Transcription regulation;
                                                                                                                       412 LIPLVLEVSG
                                                                                                                                                 4 OT ATRIMORIES 410
                                                                                                                                                                                                                                                                                                                                                             179 LSDASSDSESHSPESV DTKVNFNNLLMMYQEQGS - SPDSSEEEGSSESMLPHLADL 233
                                                                                                                                                                                                                                                                                                                                                                                        T91 PSREEAAKWSQVKKDLCSLKVS ····LQLRGERJSVWNYKPFADSGKREIFSLLPHMADM
                                                                                                                                                                                                                                                                                                                                                                                                                       124 VKRE
                                                                                                                                                                                                                                                                                                                                                                                                                                                  FRA GLOPH GVORTHEEQRMM FREIMDAOMKTEDT FESHEKNEKLE GVESSGGELPESLOA 190
                                                                                                                                                                                                                                                                                                                                                                                                                                                                               63 NOSCITITKUNRRHIQACKLKROVDIGMMREFILTIDEEVQRKKULIGRRKDEEAQREAERE 122
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             81 KGACIETTEKTERIQI'QAC'RILKKCILESGMKKEMTMSDEAVEERRALTKEKK--
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     22 SVEGKESVNADE EVGGEDCEVCGDKATGYHENVMTCEGTKGFFRKAMKRNARLKGPFR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    "1"; $$M004.40; [ROLL]; [1]; [1]; (4); [SM003.00]; ZhF[[c*4];
                                                                                                                                                                               ALGURESETLGAYIGEH HERREKELYAKMIGKIADEKSENERHSKOYKSESERPHHSMG 411
                                                                                                                                                                                                           - PLOSOFAT FLKSYTECNRPOPAHRELFLKIMAMETEE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          TVVSTSSLASDEFDRNMFRICGVCGDKATGEHFNAMTCEGCKGEFRRSMKRKATFTCPF 62
                                                                                                                                                                                                                                                        SYCLED TAGGEOGLICLEPMIKEHYMIKKIOLHEEEYVILMOAISLESPIKEOVIQHRVVD
                                                                                                                                                                                                                                                                                                  VSYSTOKVIGEAKMI POERELITAEDQIALLKSSATEVIMLKSNOSENLEDMSWSCGAPDF
                                                                                                                                                                                                                                        KYQ1SDVTKAGHTLELLEPLVKEQVGLKKLNLQEEEHVMLMATGLLSPDRPGVQDHARTE 353
                                                                                                                                                                                                                                                                                                                               STYMEKGLISFAKVISYERDLPIEDQISLLKGAAFELCQLKENTVENAETGTWECGR--L
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  teb (4.2%) Score 748.5; bk 13; Lengthal Similarity (5.8%) Fred. No. 1.7e 56; i71; Conservative 74; Mismatches 134; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Lobert
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           425 AA2 48174 MW;
(TrEMBLIEL, 13, Created)
(TrEMBLIEL, 13, Cast sequence update)
                                            PRELIMINARY;
                                                                                                                                                                                                                                                                                                                                                                                                                       RUTDEOSQVIAMLVEAHHKTYDDSYSDECREREVREGPVTKSASRAASLHS
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                                              453 AA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                DB 13; Length 425;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  53; Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             SERT 144
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RESULT 15
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Best Local Similarity 88.2%; Pred. No. 6056;
Matches 169; Conservative 70; Mismatches 151; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               "Danjo rerio vitamin b receptor.";
Submitted (JUL-1999) to the EMML/Abrikank/DUBL databases.

1. SUBCELLULAR LOCATION: NUCLEAR (BY SIMILARITY).

1. SIMILARITY: LOCATION: STEROID RECEPTOR ZINC FINGER FAMILY EMBL; AF164512; AAF21427.1; ...

HSSP: F20394; TA6Y.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       SMART: SM00430; HOLL; 1.
SMART: SM00399; ZDF_C4; 1.
PROSTIE: PS00031; NUCLEAR RECEPTOR: 1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Brazbydanio rerio (Zebratish) (Zebra danio).
Brkarysta: Metazoa (Moordata: Craniata: Vertebrata: Entejeostomi:
Actinopteryqii; Neopteryqii; Teleostei; Enteleostei; Ostariophyst;
Cypriniformes; Cyprinidae: Rasborinae: Danio.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Plam: PF00104; hormone_rec; l. Plam: PF00105; zf c4; l.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   <u>V</u>1¥.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            01-JUN-2001 (1) EMBLIOL. 17, Last annotation update)VII AMIN D RECEPTOR.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 SEQUENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       DNA-binding: Nuclear protein; Receptor: Transcription regulation;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                PRINTS: PROUG47; STROIDFINGER.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         InterPro: [PR001723; Strdbormone, receptor [interPro: [PR001628; zf-C4]]
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Konzmenko A.P.:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Zine tinger
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         InterPro: IPR000536; Harmone rec_liq
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                                                                                         RSLSFOPEHSMOLTPLVLEVEG 449
                                                                                                                                                                                                              DREGVODRYRIEALODRISDVLOAYIRIO
                                                                                                                                                                                                                                                                       DREGVLOHRVVDOLGEGEATTLKSYTETNREGEAHRELETKIMAMLTEE
                                                                                                                                                                                                                                                                                                                                       EDMSWSCCODDFKYCINDVFKAGHTLELLEFLVKFQVGLKKLKLHEEEHVLLMAICILLSF
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ETESTLEHIMADMSTYMFKGITISFAKVISYFKOLFITEKOTSLLKGAAFELGQLRENTVENA 294
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        KRKEEEAAKEARKP-----KLSDEQMQ1INSLVEAHHKTYDDSYSDEVRERPPVREGPVTK-196
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           RKKSE - RIGIQULGVQGLTEEQRMMIRELMDAQMKTEDDTTESHFKNFRLP GVLSS 180
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    RSMKRKASE10PF-NGNOTTEKDNRRHOQACRLKROIDTGMMKEF1LTDEEVQKKKBLIM-140
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          KAMKRNARLECPFERGACETTERTEROCUACKLERCLESOMKKEMIMSDEAVEERRALIK 120
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ESWNHADEVHOEDTESVEGKESVNADEEVOODQTORVOODKATGYBENVMTOEGOKGEEK 66
                                                                                                                                                                                                                                                                                                                                                                                                                                                      SRISMIPHIADLYSYS1QKV1GFAKMIPGFRÐITAFDQIALLKSSAIFIIMLKSNÇSFSL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     SASRAASILISLSDASSDSENHSPESVD1KLNESNLLMMYQDSGSPDS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 453 AA; 50765 MW; B520820185859F90 CR064
                                                                                                                                                                                                                                                                                                                                                                                             -RLSYCLED TAGGEQQILLEPMLKFHYMLKKLQLHEEEYVLMQAISLESP 351
                                                                                                                                                     ·ATPEMORERG 410
                                                                                                                                                                                                                 HEGGRILLYAKMIQKIADLKSINEEHSKQY 427
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     DB 13; Length 453;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                409
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10;

PRELIMINARY;

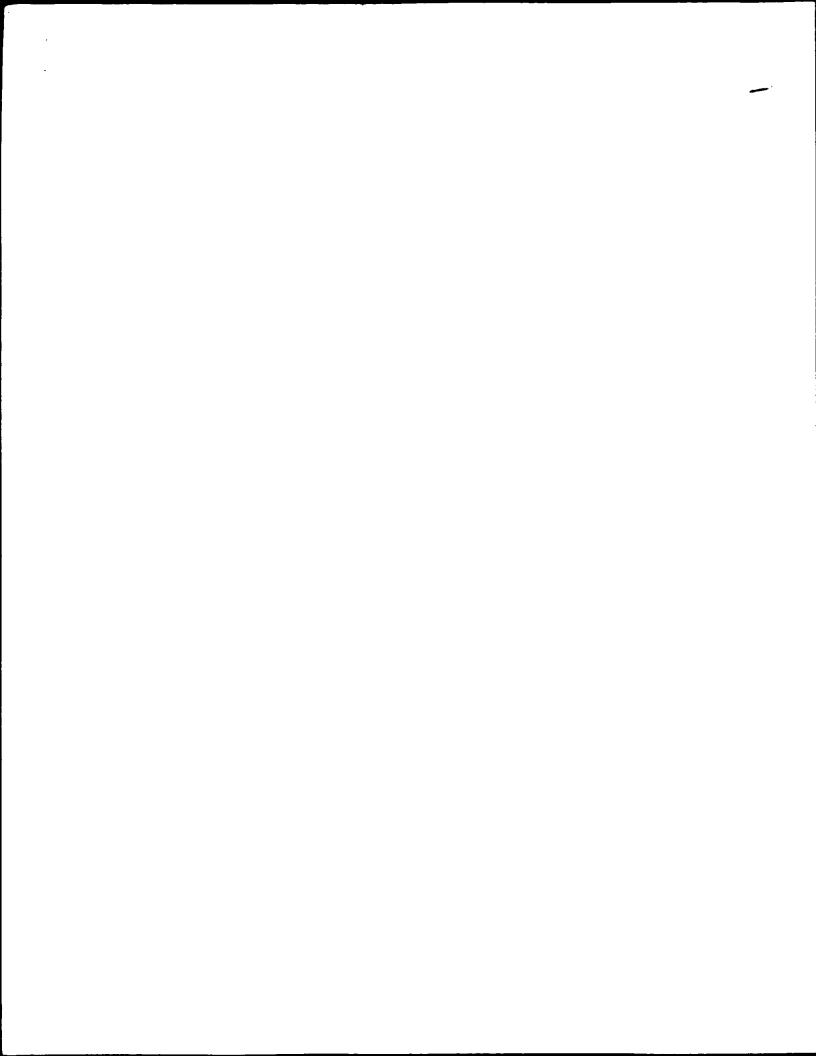
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                                                                                                                                                                                                                                                                                                                                                         Matches
                                                                                                                                                                                                                                                                      Query Match
Best Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           "" Fional annotation of a full-length mouse cDNA collection.";
-i VSUBCELLULAR LOCATION: NUCLEAR (BY SIMILARITY).
-i VSUBLEARITY: To C4-TYPE STEROID RECEPTOR ZINC FINGER FAMILY.
EMBL; AKOll108: BAB27404.1; -.
MGD; MGI:1477040; NrII2.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Schriml L.M., Staubli F., Suzuki R., Tomita M., Wagner L., Washio T., Sakai K., Okido T., Furuno M., Aono H., Baldarelli R., Barsh G., Blake J., Bottelli D., Bojunga N., Carninci P., de Bonaldo M.F., Brownstein M.J., Bult C., Fletcher C., Fujita M., Gariboldi M., Gustincich S., Hill D., Holmann M., Hame D.A., Kamiya M., Lee N.H., Lyous P., Murchionni L., Mashima J., Mazzarelli J., Monbaerts P., Nordone P., King B., Kingwald M., Rodriyuez I., Sakamoto N., Sato K., Schoenbach C., Seya T., Shibata Y., Storch K.-F., Suzuki H., Toyo-oka K., Wang K.H., Weitz C., Whittaker C., Wilming L., Byschier's A., Yoshida K., Hasegawa Y., Kawaji H., Kohtsuki S.,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Kadota K., Matsuda H.A., Ashburner M., Batalov S., Casavant T., Fleischmann W., Gaasterland T., Gissi C., King H., Kochiwa H., Kuehl P., Lewis S., Matsuo Y., Nikaldo I., Pesole G., Quackenbush J.,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Arakawa T., Hara A., Fukunishi Y., Konno H., Adachi J., Fukuda
Aizawa K., Izawa M., Nishi K., Kiyosawa H., Kondo S., Yamanaka
Saito T., Okazaki Y., Gojobori F., Hono H., Kasukawa T., Saito
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Enkaryota: Metazoa: Chordata: Craniala; Vertebrata: Eureleostomi: Mammalia: Eutheria: Rodentia: Sciurognathi; Muridae: Muribae: Mus MCHI_TaxID:10090:
                                                                                                                                                                                                                                                                                                                                                                                                                                          PRINTS; PRO0047; STWOIDFINGER.
SMART; SM00399; ZDF_C4; 1.
PROSITE: PS00031; NUCLEAR_RECEPTOR; 1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  SEQUENCE FROM N.A.
STRAIN-C57BL/6J; TISSUE EMBRYONIC LIVER;
MEDLINE-21085660; PubMed-11217851;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         01-JUN-2001 (TrEMBLIE1, 17, Greated)
01-JUN-2001 (TrEMBLIE1, 17, Last sequence update)
01-JUN-2001 (TrEMBLIE1, 17, Last annotation update)
01-JUN-2001 (TrEMBLIE1, 17, Last annotation update)
01-JUN-2001 (TrEMBLIE1, 17, Last annotation update)
                                                                                                                                                                                                                                                                                                                                                         SEQUENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Hayashizaki Y.
                                                                                                                                                                                                                                                                                                                                                                                                  Zinc tinger.
                                                                                                                                                                                                                                                                                                                                                                                                                      DNA-binding: Nuclear protein; Receptor; Transcription regulation;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Ptam: PF00105; zf-C4;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            InterPro: IPR001628; zf-c4.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Mus musculus (Mouse)
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120 ALIKK 124
                                       123 ALIKE 127
                                                                            60 GEFERAMKENVELECPERKGTCELTHKTEROCOACELEKCLESGMKKEMIMSDAAVEGER 119
                                                                                                                   63 GFFRRAMKENAKI.ROPFRKGACELTRKTRRQCQACKI.RKCLESGMKKEMIMSDEAVEERR 122
                                                                                                                                                              1 MRPEESWSRVGLVQCEEADSALEEP-INVEEEDGGLQICRVCGDKANGYHFNVMTCEGCK 59
                                                                                                                                                                                      * VRPKESWNHADEVHCEDTESVPGKPSVNADEEVGGPQICRVCGDKAIGYHENVMTCEGCK 62
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Shinaqawa A., Shibata K., Yoshino M., Itoh M., Ishii Y.,
                                                                                                                                                                                                                                                                                                                                                         124 AA;
                                                                                                                                                                                                                                                   Conservative
                                                                                                                                                                                                                                                                                                                                                                               124
                                                                                                                                                                                                                                                                                                                                                                             124
                                                                                                                                                                                                                                                                      24.5%;
78.4%;
                                                                                                                                                                                                                                                                                                                                                         14323 MW; 21F83A34B248B6C1 CKC64;
                                                                                                                                                                                                                                               10: Mismatches
                                                                                                                                                                                                                                                                      Score 536.5; DB 11; Length 124; Pred. No. 7e-39;
                                                                                                                                                                                                                                                 16; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    , Fukuda S.,
Yamanaka I.,
, Saito R.,
                                                                                                                                                                                                                                               1; Gaps
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Search completed: March Job time: 382 sec

2, 2002, 02:44:32



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Title:
Perfect score:
Sequence:
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Maximum Match 100%
Listing first 45 summaries
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Minimum DB seq length: 0
Maximum DB seq length: 20000006000
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Scoring table:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Run on:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                            GenEmbl:*

1: 4b_ba:*

2: 4b_bi:4:

3: 4b_bi:4:

4: 4b_om:*

5: 4b_pat.

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7: 4b_pr.

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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

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## ALIGNMENTS

	MEDIANE 98395174	TITLE The human	AUTHORS Lehmann,J.M. Kliewer,S.A.	REFERENCE 1 (bases	Eukaryota	ORGANISM Homo sapiens	SOURCE human.	KEYWORDS .	VERSION AF061056.	ACCESSION AF061056	DEFINITION Homo sapi	LOCUS AF061056	AF061056
Lebumann, J.M., McKee, D.D., Watson, M.A., Willson, L.M., Moore, J.T. and Lebumann, J.M., McKee, D.D., Watson, M.A., Willson, L.M., Moore, J.T. and	J. Clin. Invest. 102 (5), 1016–1023 (1998) 98395173	The human orphan nuclear receptor PXR is activated by compounds that regulate CYP3A4 gene expression and cause drug interactions	Lehmann,J.M., McKee,D.D., Watson,M.A., Willson,T.M., Moore,J.T. and Kliewer,S.A.	mailmaila; Eucletta; Filmates; Catairfilm; Monthibae; Homes 1 (bases 1 to 2146)	Eukaryota; Metazoa: Chordata; Craniata; Vertebrata; Euteleostomi;	ens			AF061056.1 G1:3511137		Homo sapiens orphan nuclear receptor PXR mRNA, complete eds.	2146 bp mkNA PRI 20 JAN 1999	

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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrbini; Hominidae; Homo.
1 (bases 1 to 4448)
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1771, .3144
                                                                       /gene "PRRI"
/note-"isoform with longer A/B domain, translation
initiates at GUG-1771 5 fold less efficiently than
CUG-1840"
/rodon_start-1
/transl_except-(pos:1771. .1773.aa:Met)
/product "nuclear hormone receptor PRRI
/protein_id="CAB55490.1"
                                                                                                                                                                                                                                      /map="ql2-ql3.3"
/tissue_type="liver"
                                                                                                                                                                                                                                                                                         /organism="Homo sapiens"
/db_xret="taxon:9606"
                                                                                                                                                                                                   /tissue_type="colon"
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Query Match 99.2%;
Best Local Similarity 99.8%;
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/protein id-"CAB55491.1"
/db_xret "G1:5852665"
/translation "MICEGCKGFFKRAMKKNAKLKCPFKKGACE:IRKIBRGCQACRL
KKCLESGMKNEMIMSDEAVEERRALIKHKKSEKIGTQPLGVQGITEFQRMMIRELMDA
                                                                                                                                                                                                                   FIRIMAMITELES INAQUITORLER TOD THEFATPLMORLEGITGS.
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KLQLHEEEYVLMQATSLESPDRPGVIQHWVVDQLQEQFATTLKSYTECMRFQPAHKFL
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LHEEEYVLMQATSLESIDREGGTQHRVVIDQLQEQEAFTLKSYTECNREGEAHRELFTK
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LESGMKNEMIMSDEAVEERRALIKRKKSERTGTQFLGVQGLTEEQRMMIREIMDAQMK
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/protein_id-"CAB55489.1"
/db_xref-"G1:5852063"
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SVPGKPSVNADEEVGGPQICKVCGDKATGYHFNVMTCEGCKGFFKKAMKRNAKLKCFF
RKGACEITRKTKRQCQACKLRKCLESGMKNEMIMSDEAVEEKKALIKKKKSEKIGTUP
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/note-"tiumcated receptor"
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/note="full length receptor"
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PC C12N15/09/C07 PC 301N34/53, Eukaryola: Metazoa: Chordata: Chaniata: Vo Mammalla: Eutheria: Primates: Catarrhini: 1 (bases 1 to 405) Juney.y.s.S. and Naito. Homo sapiens E32709.1 GI:13026816 E42709 (C12P21/02, C12R1:19) PC C12N15/00, (C12N Novel nuclear receptor profein. Homo sapiens. JP 1999127872-A/10. Novel nuclear receptor - G01N33/566//(C12N15/09.C12R1:91),(C12N1/21,C12R1:19), JUN YAMAMOTO, YUTAKA SALLO, TAKAYUKI NALTO C12N15/09, C07K14/72, C07K16/2B, C12N1/21, C12P21/02, C12Q1/68, JP 1999127872-A/10 JP 1999127872 A 1057 եր JP 1998224172 protein, ĀNĀ 5661 - AVM - RT 01 <u>.</u> <u>x</u> Such delle Vertebrata: ž but 1111 Hominidae; utilization thereof utilization 07 FEB Euteleostomi;

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Herkenstam,A.
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JAPAN ToFACCO INC
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FD 18-MAY-1999
FP 07-AUG-1998 JF 1998224172
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Jun.Y.Y.S.S. and Naito.
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Genetics, Novo Alle, pK 2880, Bagsvaerd,
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/dh_xret "taxon:9606"
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/protein_id="CAH55494.1"
/db_xret="G1:5852069"
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/protein_id="CAB55492.1"
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/protein_id="CAB55493.1"
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18 Home Sapices (buman)
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OS HOMO SEPICOS
PN JP 199127872
PD 18-MAY-1999
PF 07-AUS-1998 JI
PR PI JUN YAMAMOTO,
COLN 3753
                                                                                                                                                                                                                                                                                                                                                                                                                   PC 001N43/566//(C12N15/09.C12R1:91).(C12N1/21.C12R1:19).
PC 12P2//02.C12R1:19).
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JAPAN TOBARCO INC
OS Homo Sapiens (human)
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                                              Jones, S.A., Moore, L.B., Shenk, J.L., Wisely, G.B., Hamilton, G.A., McKee, D.D., Tonk tuson, N.C., Le Thyse, E.L., Lambert, M.H., Willson, T.M., Kliewer, S.A. and Moore, J.T.
Direct Submission
Submitted (20 SEP 1999) Molecular Endocrinology, Glaxo Wellcome,
                                                                                                                                                                                                                                                           Johns, S.A., Moore, L.I
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                                       1695 toccaaqad 1703
                                                                                   1263 CAUGGCAGCCAGGCCCACAGGCCCCCCAAGCCCCCATGTGGAACACCACCACTATGTCAACAG
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Search completed: March 2, 2002, 01:49:34 Job time: 3740 sec

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Post-processing: Minimum Match O%
Maximum Match 1908
Listing first 45 summaries
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Maximum DB seq length: 2000000000
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Copyright (c) 1993 - 2000 Comp
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13171.678 Million cell updates/sec
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

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Result		Query				
N○.	Score	Match	Match Length DB		ID	Description
_ :	2146	100.0	2146	20	AAZ07997	Human pregnane X r
2	2115.4	98.6	3057	20	AAX59975	DNA encoding an ir
u	2101.4	97.9	1093	20	AAX78807	Human nNR7 cDNA.
4	2075.2	96.7	2910	20	AAX56242	Human vitamin D re
J	2006.4	93.5	1241	20	AAX59974	DNA .
6	1866.6	87.0	2802	20	AAX56243	Humai
7	1866.6	87.0	2850	20	AAX78808	Humar
<b>3</b> 0	1744.4	81.3	2068	20	AAX89080	Human steroid and
ç	1744.4	81.3	2068	22	AAH25489	Nucleotide sequenc
10	1 374	64.0	1 174	20	AAX59967	DNA encoding an in
11	1330.2	62.0	1422	20	AAX59968	DNA encoding an i

Claim 4; Fig 1A-D; 69pp; English.

New human prequame X receptor, used to identify specific modulators and agents that induce expression of cytochrome P-450 mono-oxygenase  $^{\circ}$ 

4	44	З	42	41	40	39	3 8	3.7	36	3.5	34	33	32	<u>-</u>	30	29	28	27	26	25	24	23	22	21	20	19	8	17	16	5	14	نب تد	12
170.6	172.2	181.6	99	188	188	188.4	188.6	215	220.4	220.4	220.4	220.8	236	236	236	242.8	257	263.2	271.2	272.8			272.8		•		278.2	278.8	278.8	599.2	608.2	736.6	1305
7.9	8.0	α υπ	8.6	æ. æ	в. В	8.8	в. в	10.0	10.3	10.3	30.3	10.3	11.0	11.0	11.0	il. 3	12.0	12.4	12.6	12.7	12.7	12.7	12.7	12.7	12.7	12.9	13.0	13.0		27.4	28.3	34.3	60.8
1450	1450	1280	1404	423	423	423	1404	1534	345	345	34.5	345	3382	3 182	1071	324	2191	300	1399	4604	3510	1574	1463	1382	1284	415	962	2043	1960	711	644	801	1305
14	18	20	19	22	22	22	20	20	22	22	22	22	20	19	20	22	17	22	14	19	20	20	20	20	22	22	22	14	19	22	20	22	20
AAQ46131	AAT92305	AAX80215	AAV03130	AAS02900	AAS02899	AAS02905	AAX16597	AAX34790	AAS02898	AAS02897	AAS02896	AAS02903	AAX16606	AAV18518	AAX16596	AAS02909	AAT36499	AAH34483	AAU51424	AAV41327	MAZ07545	AAX34793	AAX34788	AAX34789	AAH24801	AAS02906	AAS02902	AAQ51425	AAV03129	AAH 34 900	AAX59972	AAF80601	AAX59966
Human CAR receptor	Constitutively act	Mouse nuclear rece	cDNA encoding rat	DNA encoding human	DNA encoding human	Human proquanc X r	Human vitamin D re	Nucleotide sequenc	DNA encoding human	DNA cucoding human	DNA encoding human	Human prognano X r	Rat vitamin D rece	coNA encoding rat	Rat vitamin D rece	Human pregnane X r	Xenopus orphan rec	Human colon cancer	Human vitamin D re	Human vitamin Dire	Human vitamin D re	Nucleotide sequenc	Nucleotide sequenc	Nucleot ide sequene	Nucleotide sequenc	Human pregnane X r	Human pregnane X r	kat vitamin D rece	cDNA encoding rat	Human colon cancer	SEC 10 12 of JP111	Receptor #89 parti	DNA encoding an in

## ALIGNMENTS

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RESULT
AAZ07997
ID AAZ0
W09948915-A1
                                                                                                                                                                                cytochrome P-450 mono-oxygenase; drug interaction; hPXR;
                                                                                                                                                                                                         Human pregname X receptor (hPXR) encoding DNA
                                                                                                                                                                                                                        17-JAN-2000 (first entry)
                                                                                                                                                                                                                                          AAZ07997;
                                                                                                                                                                                                                                                          AA207997 standard; DNA; 2146
                                        P-PSDB; AAY42691
                                                WPI; 1999-601202/51.
                                                                Kliewer SA, Willson TM;
                                                                                (GLAX ) GLAXO GROUP LTD
                                                                                                27-MAR-1998;
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The modulators are potentially useful for: associating particular diseases, and conditions with EXE and for treating such conditions. Antibodies raised against BEXE can be used for determination and purification of BEXE. The present sequence represents a DNA encoding the
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The hEXB is used to identify its specific modulators, and compounds that induce CYPEAA expression (i.e. to identify drug
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be used for freating metabolic, proliferative or inflammatory conditions.
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The nucleic acid sequence was isolated from a human adult cDNA library using a swellfish ANO23 derived probe. The protein can be used for the development of drugs and diagnosis and treatment
                                                                             The present sequence encodes a human intranuclear receptor protein
                                                                                                                                  Claim 10; Page 32-35;
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breast cancer; osteoporosis; Cushing syndrome; virilism; hirsutism;
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                                                                                      New steroid and xenobiotic receptor, used to identify modulators for controlling metabolism of steroids and xenobiotics, e.g. reducing
                                                                                                                                                                                   P-PSDB: AAY21799
                                                                                                                                                                                                                                                                                                                                        (SALK ) SALK INST BIOLOGICAL STUDIES
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/note- "Xaa= unknown; the start codon is not indicated"
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reduce steroid toxicity in subjects being treated with steroids, e.g. in CC cases of tuberculosis (treated with riampid and related compounds). CC breast cancer (treated with tamoxilen, raloxilen etc.) or osteoporosis (treated with tamoxilen, raloxilen etc.) or osteoporosis (treated with vitamin K), or to slow methablism of the apeutic steroids. Also, modulating endogenous SKR is used to treat disease, particularly can agonist is used where endogenous steroid levels are excessive (e.g. C. Cushing syndrome; virilism and birsuitism in women; polycystic coarian can disease; il beta, if or 21 hydroxiles deficiency; theyervies deficiency or breast, colorectal or prostatic cancer). While antagonists are used where endogenous steroid levels are too low. CC defined that express SXR are used to identify compounds likely to be convolved in undestrable drug interactions. Antibodies specific for SXR care used in immunohistochemical testing for stradying distribution.

CC expression density of SXR, also for diagnosis and therapeutically as antagonist. The present sequence represents the langest SXR cDNA clone and she saw notwentible.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  requiates expression of ratabolic enzymes, in response to many different steroids, and thus affects metabolism. SXR is a broad specificity, low-affinity receptor for reducing excessive levels of steroids in the circulation. (Ant)agonists of SXR are used to requiate metabolism of
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    genes, in response to a wide variety of natural and synthetic steroid
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encoding the SXR polypeptide.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             steroids particularly phytoestrogens or calcium-channel blockers, to
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Sequence 2068 BF: 520 A; 541 C; 586 G; 420 T; 1 other,

달 Ş 5 9 9 Ϋ́ 5 Ş Db ő <u>G</u> ć DЬ 9 2 Š 2 81.3%; Score 1744.4; DB 20; Length 2068; Best Local Similarity 99.4%; Pred. No. 0; Matches 1781; Conservative of the conservat 640 580 108 460 eggeteettagtaaugetaeteettgategateetttgeaeeggattgtteaaagtgdue 181 400 760 ggatqoaaqqgctttttoagqaaqqqccatqaaacqcaacqcccqqctqaqutqccccttc 819 481 qqatacaaqqqcttttttcaqqaqqqccatqaaacqcaacqcccqqctqaqqtqccccttc 546 241 creaggggaagaagteggaagaaaaaanttacraccaageagtecaagaggeceagaayea 340 gacgggaagaggaagcactgcctttacttcagtgggaatctcggcctcagcctgcaaucc 280 tgaaatalaggtgagagacaagattgtctcatalccggggaaaatcataacctatgactau 339 198 61 gacqqqaayaqqaaqcartqcctttarttcagtqaqaafctcqqcctcaqcctqcauqcc 120 l tqaaatataqqtqaqaqcaaqattgtofoafatooqqqqaaafoafaacotafqactaq 60 atotgoogtgfatgtggggacaaggooactggotatcacttcaatgtcatgacatgtcaa | cugetteet tagt aaaact act eet tagat eaat teet t tagaeeggat tatt caaaat aaac atet geegt git at git ggggaeaaggeeaet gget at eacht it ead git eat gaeaf git aau acagaqtictigtticctiggaaaageecagtigticaacgcauatgaaqaaagticqaaagateecaa aacetqgaqytqaqaeecaaagaaagetqqaaeeatqetaaetttqtueuctgtqaqqae 639 cecagaddayant cadadeaaadaaet taccaccaancaatcaat ccaadaddcccahaadca aagtgttcacugtgagaaaaqcaaqaataagctaatactcctgtccfgaacaaqqcaq 

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                                                                                   inducible 1450 denes in response to a variety of natural and synthetic steroid hormones and prominently expressed in liver and intestine. SXR binds to a direct or inverted repeat response element motif based on the half site ACTICA. SXR is useful for identifying compounds which are adomists or which activate the receptor. The compounds identified are useful for treating a wide variety of conditions such as Cusbind's syndrome, virulism and birsutism, androgen excess due to polycystic
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The probes are immobilised and are prefetably useful as hybridisable array elements in a microarray for monitoring the expression of several

The present invention relates to a composition comprising several polynucleotide probes, Probes can be derived from the present sequence.

polynucleotides. The microarray can be used in the diagnosis of such as adenocarcinoma, leukaemia, lymphoma, metanoma, myetoma,

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Matches 776;
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                                                                                                                                                                                                                                                                                                                                                                                                                                         of various diseases. The present sequence was used in the course
                                                                                                                                                                                                                                                                                                                                                                                                                                                                 The specification describes a human intranuclear receptor profit
The nucleic acid sequence was isolated from a human adult clNA
library using a swellfish ANO23 derived probe. The profein can
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  diagnosis and treatment of disease
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                                                                                                                                                                                                                                                                                 expression. For example, N and P may be used to freat disorders associated with decreased expression by rectifying untations or deletions in a patient's genome that after the activity of P by expressing that intellive proteins or to supplement the patients own production of P. Additionally, N may be used to produce the colon cancer associated Ps.
                                                                      by inserting the nucleic acids into a bost cell and culturing the cell to express the proteins. N and P can be used in the prevention, diagnosis and treatment of colorectal carcinomas and cancers. AAB37196 to AAB37204
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             cancer antiques have extostatic activity and can be used in genetherapy and vaccine production. N and P may be used in the prevention.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Claim 1: Fage 3483 3484; 9803pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Nucleic acids encoding 4277 human colon cancer-associated polypeptides iscetal to preventing diagnosing and/or treating colorectal cancers
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and AAB77789 represent sequences used in the exemplification of the

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NAME: Schwartz, Carl R.
REGISTRATION NUMBER: 29,447
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LITLE: Structure and regulation of the rat
TILLE: L.25 dibydroxyvitamin by receptor
JOURNAL: Proc. Natt. Acad. Sci. U.S.A.
VOLUME: B5
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  AUTHORS: formester, James K.
AUTHORS: Wiese, Russell J.
AUTHORS: Medda, N. 526019/myo
AUTHORS: belard, beetor F.
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                                                                                                                                                                                                                                                                                                                                            y Match 13.0%; Score 278.8; DR 1; Lenath 2043; Local Similarity 55.6%; Pred. No. 1.7e-57;
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                                                                                                                                                                                      GENERAL INFORMATION:
                                                           APPLICANT: Deluca, Hector F.
APPLICANT: Ross, Troy K.
APPLICANT: Prahl, Jean M.
TITLE OF INVENTION: Method of Producing
TITLE OF INVENTION: 1,25-Dihydroxyvitamin D3 Receptor Protein
NUMBER OF SEQUENCES: 6
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                       ADDRESSEE: Carl R. Schwartz, Esq., c/o Quarles & Brady
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                                                                                                                                                                                                                                                                                                                                       Query Match 12.7%; Score 272.8; DB 1; Best Local Similarity 55.1%; Pred. No. 4e-56; Matches 638; Conservative 0; Mismatches 487;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           TELEFAX: 414-277-5774
INFORMATION FOR SEQ ID NO: 5:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          NAME: Schwartz, Carl R.
REGISTARION NUMBER: 29,437
REFERENCE/DOCKET NUMBER: 96
TELECOMMUNICATION INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 SOFTWARE: Patentin Release #1.0, Version CURREN; APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                COMPUTER READABLE FORM: MEDIUM TYPE: Floppy
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        PUBLICATION INFORMATION:
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COMPUTER: IHM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
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                                                                 353 CGGCTCAAACGCTGTGGACATCGGCATGATGAAGGAGTTCATTCTGACAGATGA3GAA 412
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STATE: Wisconsin
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DATE: May-1988
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              AUTHORS: O'Malley, Bert W.
TITLE: Cloning and expression of tull-length cDNA
TITLE: encoding human vitamin D receptor
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Pike, J. W.
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Mangelsdorf, David J.
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FIFTH OF INVENTION: CAR RECEPTORS AND RELATED FIFTH OF INVENTION: MOLECULES AND METHODS
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Best Local Similarity 57.5%; Pred. No. 9.2e-32;
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TELEFAX: (617) 542-8906
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                                                                                                                                                                                                                                                                                                                                                                  Best Local Similarity
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INFURMATION FOR SEQ ID NO:
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MEDIUM TYPE: 3.5" Diskette, 1.44 Mb
COMPUTER: IBM PS/2 Model 502 or 558X
OPERATING SYSTEM: IBM P.C. DOS (Version 3.30)
SOFTWARE: WordPerfect (Version 5.0)
CURRENT APPLICATION DATA:
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FILING DAIE: FODTWATY 25, 1992
AITCHNEY AGENT INFORMATION:
NAME: Paul T. Clark
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TITLE OF INVENTION: CAR RECEPTORS AND RELATED
TITLE OF INVENTION: MOLECULES AND METHODS
CORRESPONDENCE ADDRESS
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TELECOMMUNICATION INFORMATION:
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(617) 542-8906
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Matches 327;

Conservative

Query Match 7.9%; Score 170.6; DB 1; Best Local Similarity 57.5%; Pred. No. 9.2e-32;

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US-07-843-350C-1
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TOPOLOGY:
US-07-843-350C-1
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                                                                                                                   INFORMATION FOR SEC ID NO: 1:
                                                                                                                                                                                                                                                                                                                                                                                                                    COMPUTER: 1BM PS/2 Model 50% or 558X OPERATING SYSTEM: 1BM P.C. DOS (Version 3.40) SOFTWARE: WordPerfect (Version 5.0) CURRENT APPLICATION DATA:
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MEDIUM TYPE: 3.5" Diskette,
COMPUTER: IBM PS/2 Model 50
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TELECOMMUNICATION INFORMATION:
TELEPHONE: (617) 542-8070
TELEPAX: (617) 542-8906
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                                                                                                                                                                                                                                                                                                                                        CLASSIFICATION: 435
PRIOR APPLICATION DATA:
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                                                                                                SEQUENCE CHARACTERISTICS:
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                                   TYPE: nucleic acid
STRANDEDNESS: single
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THE CONTROL OF INVENTION: CAR RESTERFORS AND RELATED MODERNIES AND
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CHERATING SYSTEM: IBM PS/2 Medel 502 or 558X

CHERALE Worlder Leet (Version 5.0)
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                                                                                                                                                                                                                                                                                                                      GENERAL INFORMATION:
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4.5%; Score 97.6; DB :; Length 1898;
Best Local Similarity 47.6%; Pred. No. 2.5e-14;
Matches 585; Conservative 0; Mismatches 589; Indels 76
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            TELEPHONE: (512) 418-3000
TELEPHONE: (713) 789-2679
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APPLICANT: SALID,
ITTLE OF INVENTION: F
TITLE OF INVENTION: F
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                                                                                                                                                                                                                                                                                                                                                                  NUMBER OF SEQUENCES:
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                                           COUNTRY:
                                                                                 STATE:
                                                                                                                                 STREET: 2026 kar
CITY: Kalamazoo
                                                                                                                                                                                                                                 ADDRESSEE: FLYNN, THIEL, BOUTELL & ADDRESSEE: FANIS, P.C.
                                                                                                                                                                                                                            ADDRESSEE:
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49008-1699
                                                                                      Michigan
                                                                                                                                                                                 2026 Rambling Road
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COMPUTER: IBM PC/XI/AT Compatible OPERATING SYSTEM: MS DOS 5.0 SOFTWARE: Worldert 5.0 CURRENT APPLICATION DATA:

FILING DATE: CLASSIFICATION:

APPLICATION NUMBER: US/08/649,619B

COMPUTER READABLE FORM:

MEDIUM TYPE: Diskette, 4.5 inches, MEDIUM TYPE: storage

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                                                                                                                                                      Sequence 1. Application US/08430518
Fateur No. 560/967
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Rest Local Similarity 54.8
Matches 215 Conservative
                                                                                                                  GENERAL ENFORMATION:
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VEHITIANT:
                                           VELTICANT:
                                                                           APPLICANT:
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TELECOMMUNICATION INFORMATION:
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LUCATION: 206..(59)
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STRANDEDNESS: double
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RECISTRATION NUMBER: 32549
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                               Holloway, M. Katharine
Readam,
                                                                           Friedman,
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Pred. No. 2
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Best Local Similarity 54.8%;
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TELEPAX: (908) 594-4720
INFORMATION FOR SEQ (D-NO: 1:
SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          COMPUTER READABLE FORM:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         HYPOTHETICAL: NO (denomic)
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TELECOMMUNICATION INFORMATION:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       TITLE OF INVENTION: USE OF RECEPTOR POTENTIATORS NUMBER OF SEQUENCES: 5
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                   635 tgateatgteegaegaggeegtggaagaagagagaeettgateaageggaagaaaaaft 694
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                                                                                                                                                                                                       575. adegaevagt geerageet geergeet gegevaart geet good op egest daardaad daar 634
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         SOFTWARE: Patentin Release #1.0, Version #1.25
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     COMPUTER: IBM PC Compatible OPERATING SYSTEM: PC DOS/MS DOS
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      STATE
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Score 97.6; DB 1; Length 2080;
Fred, No. 2.6c 14;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Query Match 4.5%; Score 97.6; DB 1; Length 2030; Best Local Similarity 54.8%; Pred. No. 2.6e-14;
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TELEPHAX: (908) 594-4720
INFORMATION FOR SEQ ID NO: 1:
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MEDIUM TYPE: Floppy disk
COMPUTER: 18M PC compatible
OPERATING SYSTEM: PC-LAS/MS-DoS
SOFTWARE: Patentin Release #1.0, Version
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CLASS FEICATION:
ATTORNEY JAGENT INFORMATION:
NAME: Dolan, Cuthering A.
REGISTRATION NUMBER: 36,5
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           CORRESPONDENCE ADDRESS:
ADDRESSEE: Merck & Co.,
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                                               635 tdatcdtqtccqacqaqqccqtqqaqqaqqqqqqccttqatcaaqcqqaaaqatag 694
                                                                                                                                                                                                                                                                                                                                          597
717 GCGTCCFFTCTGAAGAACAGATCCGGAAGAAGAAGATTCGGAAACAGCAGCAGCAGGAGT 776
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STATE: New Jersey
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                                                                                                                                                                                                       acttcaatgtcatgacatgtgaaggatgcaagggctttttcaggaagggccatgaaacgca 517
                                                                                                                                                                GGCGCAAGTGCCAGCAGTGCCGGCTGCGCAAGTGCAAGGAGGCAGGGATGAGGGAGCAGT 716
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Schmidt, Azriel
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Rodan, Gideon
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                                                                                                                                                                                                                                                                            Query Match 4.5%; Score 97.6; DB 2; Length 20x0; Best Local Similarity 54.8%; Pred. No. 2.6e-14; Matches 215; Conservative 0; Mismatches 174; Indels
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                                                                                                                                                                                                                                                                                                                                                                                                                                                TOPOLOGY: linear MOLECULE TYPE: DNA (genomic) HYPOTHETICAL: NO
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 SEQUENCE CHARACTERISTICS:
LENGTH: 2030 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
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COMMUTER: JIBM FC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
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MEDIUM TYPE: Floppy
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APPLICANT: Holloway, M. Katharine
APPLICANT: Rodan, Gideon
APPLICANT: Rulledge, Su Jane
APPLICANT: Schmidt, Azriel
APPLICANT: Vogel, Robert
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Prod. No. 2.6c [4]
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L-18681 5680 Lad
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Sequence 1. Application PC/TUS9514941 GENERAL INFORMATION:
                                                                                                                                                               INFORMATION FOR SECTIONS:
                                                                                                                                                                                                                   REGISTRATION NUMBER: 35, 340
REFERENCE/DOCKET NUMBER: 19316 PCT
FELECOMMUNICATION INFORMATION:
                                MOLECULE LYPE: DA
                                                                                                                                                                                                                                                                                         CLASSIFICATION:
ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             APPLICANT: Friedman, Eitan
APPLICANT: Holloway, M. Katharino
APPLICANT: Rodan, Gideon
                                                                                                                                                                                                                                                                                                                                                                  SOFTWARE: Patentin Release #1.0, Version #1.25 CURKENI APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                    MEDIUM LYPE: Fioppy
MEDIUM LYPE: Fioppy
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                   ANII - SENSE:
                                                                                                                                              SECUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          NUMBER OF SECHENCES:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         TITLE OF INVENTION: USE OF KECEPTOR POTENTIATORS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               458 aettematgteatgaealgtgaaggalgtgaagggettttteaggagggeemaaggaegene 517
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                                                                                                                                                                                                                                                                                                                                                                                                MEGHUM TYPE: Fioppy disk
COMPUTER: HOM by compatible
OFFRATING SYSTEM: BY DOS/MS DOS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       717 GEGTERT FERGAAGAAGAGACKERGAAAAAAGAAGAAGAATTEGGAAAAGAGEAAGAAGAAGF 776
                                                                                                                                                               TELEPHONE: (900) 594 4720 TELEPHONE: (908) 594 4720
                                                                                                                           HILINET
                                                                                                                                                                                                                                                     NAME: Quagliato, Carecistration number:
                                                                                                                                                                                                                                                                                                                               FILLING DATE:
                                                                                                                                                                                                                                                                                                                                                 APPLICATION NUMBER: PCT/US95/13931
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               CHINTRY:
                                                                                       STRANDEDNESS: single
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                                                                                                                         2030 base pairs
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                                                                      Linear
                                                                                                                                                                                                  (908) 594 3809
                                                     DNA (denomic)
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Query Match Best Local Similarity Matches 215; Conserv

Conservative

4.5%; Score 97.6; DB 5; 54.8%; Pred. No. 2.6e 14; ative 0; Mismatches 174

DR 5; Length 2030;

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PCI-0894-12883-4
PCI-0894-12883-4
FCI-0894-12883-4
CENERAL INFORMATION:
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                                                                                                                                                       APPLICATION NUMBER: US 08/152
FILING DATE: 10-N/V-1993
CLASSI-PICATION:
AITORNEY/AGENT INFORMATION:
NAME: BARBARA S. KITCHELL
REGISTRATION NUMBER: 38,928
REFERENCE/DOCKET NUMBER: ARCD
TELECOMMUNICATION INFORMATION:
TELECOMMUNICATION INFORMATION:
                                                                                     TELEX: 79-0924
INFORMATION FOR SEQ ID NO:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       APPLICANT:
TITLE OF INVENTION: UBIG
TITLE OF INVENTION: METI
NUMBER OF SEQUENCES: 38
CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                                                                                                                                                             SOFTWARE: Patentin Rel
SOFTWARE: #1.25
CURRENT APPLICATION DAIA:
                                                   SEQUENCE CHARACTERISTICS:
LENGTH: 1813 base pairs
                                                                                                                                                                                                                                                                                                         CLASSIFICATION: PRIOR APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              COMPUTER READABLE FORM:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            STATE: Texas
STATE: Texas
COUNTRY: United States of
71P: 77210
TOP FORM:
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                                                                                                                                                                                                                                                                                                                                                                                                                                      COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS/ASCII
TYPE: nucleic acid STRANDEDNESS: single TOPOLOGY: linear
                                                                                                                                                                                                                                                                                                                                              FILING DATE:
                                                                                                                                                                                                                                                                                                                                                              APPLICATION NUMBER: PCT/US94/1288
                                                                                                                                                                                                                                                                                                                                                                                                                                                                        MEDIUM TYPE: Floppy disk
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    CITY: Houston
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                                                                                                                           TELEFAX:
                                                                                                                                          TELEPHONE:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     E: Arnold, White & Durkee P.O. Box 4433
                                                                                                                         (512) 418-3000
(713) 789-2679
                                                                                                                                                                                                                                                                                                                                                                                                                     Patentin Release #1.0, Version
                                                                                                                                                                                                                                                                                                                                              Concurrently Herewith
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               METHODS
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PCT-US94-12883 3
                                                                                                                                                                                                                                                                                                                                                                                                                 Query Match 4.5%; Score 97.2; DB 5;
Best Local Similarity 58.8%; Pred. No. 3.1e-14;
Matches 187; Conservative 0; Mismatches 128;
                                                                                                                                                                                                                                                                                                                                               532 tqccccttccqqaaqggcy---cctqcqaqatcacccqqaaqacccqqcqacaqtqccaq 588
                                                                                                                                                                                                                                                                                              472 acalqtyaaqqatqcaaqqqctttttcaqqagqqccatqaaacqccaacqcccqqctqavq 531
529 CAGTCACCIGTGGGGCCG
                                709 cagecactgggagtgcag 726
                                                                  4.69 GAACAGATCCUGAAGAAGAAGAT FCGGAAACAGCAGCAGCAGGAGTCACAGTCACAGTCG 528
                                                                                                                                       409
                                                                                                                                                                         585
                                                                                                                                                                                                           349
                                                                                                                                                                                                                                                                              289 AGCTGCGAAGGCTGCAAGGGCTTCTTCCGGCGCAGTGTGGTGCGTGGTGGGGGCCAGGGG
                                                                                                                                   TATGCCTGCCGGGGTGGCGGAACCTGCCAGATGGACGCTTTCATGCGGCGCAAGTGCCAG
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Search completed: March 2, 2002, 01:50:22 Job time: 3743 sec

2: em_costin  3: em_costin  4: em_costin  4: em_costin  5: em_costpl  6: em_costba  7: em_costba  7: em_bactov  9: em_htc:*  10: qb_cost  11: qb_hcst  12: qb_htc:  13: qb_uts:  14: em_qss  15: em_qss  16: em_qss  16: em_qss  19: em_qss  20: em_qss  21: em_qss	Database : EST:*	Post-processing: Minimum Maximum Listing	Minimum DB seq length: 0 Maximum DB seq length: 2000000000	Total number of hits sat	Searched: 11351933	Scoring table: IDENTIFY_NUC Gapop 10.0.	Fitle: US-09-2 Perfect score: 2146 Sequence: I tgada	Run on: March	om nucleic - nucleic sca	Соругі
em_estion:* em_estio:* em_estio:* em_esto:* em_esto:* em_esto:* em_esto:* em_htc:* qb_est2:* qb_htc:* qb_est2:* qb_uss:* em_qss_fun:* em_qss_fun:* em_qss_pin:* em_qss_pin:* em_qss_other:*	44************************************	Minimum Match 0% Maximum Match 100% Listing first 45 summaries	ουσουσιαστ	Total number of hits satistyina chosen parameters: 22703874	11351937 segs, 5372889281 residues	IDENTIFY_NUC Gapop 10.0 . Gapext 1.0	US-09-276-935H-13 2146   tqaaatataggtqaqagacaaqgtqcatgaqtatctgtqq=2146	2, 2002, 00:44:29; Search time 1369.92 Seconds (without alignments) 16843.422 Million cell updates/sec	nucleic search, using sw model	GenCore version 4.5 Copyright (c) 1993 - 2000 Compugen Ltd.

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

## SUMMARIES

NO	Score	Match	Match Length DB		ID	Description
	1006.8	46.9	2525	12	AK018630	
	2 430.5	20.1	489	Ξ	BI252289	
	370.8	17.3	744	10	AI746915	
_	343.6	16.0	658	1	BG955533	
G.	343	16.0	343	<u>-</u>	A1248626	
-	325.4	15.2	677	1 2	AK011108	
	288.8	13.5	300	10	AU099521	
~	3 222	10.3	638	10	AV651714	
	214.8	10.0	454	Ξ	N94132	
	201	9.4	472	10	AA277370	
_	199.6	9,3	444	10	AW871811	
c 12		8.5	200	10	AA679591	

11008686.5		AA26499	507	4.6	66	<b>4</b> 5	
ov60h04.x			370	4.6	ት ት	44	C
AJ 49 Cyls	A.] (4) (4) (A.		7 3 2	4.6	99.2	4 4	
602109385	3818824H	11 BF783185	683	4.6	94.6	<b>4</b> 2	
2000 B STIV	\$1.58 t0 0.5	10 AL58 (005	859	4.7	100.8	41	
GH144 45.	A1248447	10 AI238367	616	4.7	100.8	40	
Z129a02.8	AA679491		506	4.7	191.2	ş	7
AL5-22278	AL522278	10 AL522278	859	4.7	101.6	3. E	
mp04d08.r	AA107961	10 AA107961	463	4. X	102	37	3
602045056	BF383394		778	4 т	103.4	36	
AL554996	-		950	4	103.6	Э 5	
mx86a06.I		10 AA 3 9 6 9 8 2	468	5.1	108.4	34	
2M0085D20	AZ816919		391	∪1 .4	116.2	ين ند	7
PMO-M14320	95.957018		519	5.4	116.6	32	
ud65104.x	A1046425		724	ر ان	118	: <u>*</u>	C
602583159	HG565979		832	57 . 80	124.6	30	
6028 (1895			748	5. y	127.6	29	
uc85h08.y			463	6.2	132	28	
um07d07.y		AW01232	540	5.2	132.8	27	
602796456	BG862722		7 34		136	26	
602919969	B1159463		8.35	6.5	140.2	25	
RPC1 24 - 1	A2716472	13 AZ716492	908	6.5	140.4	24	?
601333441	BE57 4696		1053		140.8	23	
601751958			654		141.6	22	
wi46b06.x			560	6.7	143.8	21	3
60210282	-		776		147	20	
и] 91a06.у			601	7.2		19	
7419007.	AW158294		4.32		156.8	18	
602092577	BF577692	11 BF577692	689	7.4	158	17	
602114213	BF788461		677		159.6	-6	
AV108557	AV108557		215		165.4	5	
hd22a05.x	AW511146		463		166.4	14	C
W0140514	h:77-610W	4170410V					

## ALTGNMENTS

AOLHORS	REFERENCE	OH <b>M</b> BUG	MEDLINE	JOHRNAI	HILLE	AUTHORS	REFERENCE	PUBMED	MEDLINE	JOURNAL	TITLE	AUTHORS	REFERENCE		ORGANISM		SOURCE	KEYWORDS	VERSION	ACCESSION	DEFINITION	LOCUS	AK018630	RESULT 1
ShiData, K., Iton, M., Alzawa, K., Rudaoka, S., Sasaki, N., Garbiret, P., Konbo, H., Akiyama, J., Nishir, K., Kitsunai, T., Tashiro, H., Itoh, M., Sumi, N., Ishile, T., Nakamura, S., Hazama, M., Nishine, T., Hazada, A., Yamamoto, R., Matsumoto, H., Sakaquchi, S., Ikedami, T., Kashiwadi, K., Yuliwake, S., Inoue, K., Todawa, Y., Izawa, M., Ohara, E., Watahiki, M., Yoneda, Y., Ishikawa, T., Ozawa, K., Tanaka, T., Matsuura, S., Kawai, J.,	3 (bases 1 to 2525)	11042159	20499474	prepare full length cDNA libraries for rapid discovery of new genes	Normalization and subtraction of cap-trapper selected cDNAs to	Carninci,P., Shibata,Y., Hayatsu,N., Suqahara,Y., Shibata,K., Itoh M. Konno H. Okazaki v. Muramatsu M. and Havachizaki v	2 (bases 1 to 2525)	10349636	99279253	Methods in enzymology, 403, 19-44 (1999)	High-efficiency full length cDNA cloning	Carninci,P. and Hayashizaki,Y.	1 (bases 1 to 2525)	Eukaryota: Metazoa; Chordata; Craniata: Vertebrata; Euteleostomi; Mammalla: Eutheria; Rodentia; Sciuroquathi; Muridae; Morinae; Mus.	Mus musculus	clone:9130016118.	Mus musculus (strain:C578L/6J) adult male cecum cDNA to mRNA.	CAP trapper.	AK018630.1 GT:12858434	Library, clone:9130016118, full insert sequence. AK018630	Mus musculus adult male cecum cDNA. kIKEN tullilength curiched	AR018630 2525 bp mRNA HTC 05-JUL-2001		

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Sasaki, D., Shibata, K., Shibata, Y., Shibadawa, A., Shiraki, T.,
Sopabo, Y., Suzuki, H., Laqami, M., Teaawa, A., Takahashi, F.,
Tanaka, T., Tejima, Y., Toya, F., Yamamura, T., Yasunishi, A.,
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ETKEN interprated sequence analysis (ETSA) system 484 format
sequencing pipeline with 484 multicapillary sequencer
Sequence research, 10 (11), 1757 1771 (2000)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   lmolani.K., Ishii,Y., Itoh,M., Izawa,M., Kato,H., Kawai,J.,
Kojima,Y., Kompo,H., Konda,M., Koya,S., Kuribara,C., Matsuy
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Adachi,I., Aizawa,K., Akahira,S., Akimura,T., Aono,H., Arai,A.,
Arakawa,F., Parninci,P., Fukuda,S., Eukunishi,Y., Euruno,M.,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  end: Bandll. Nost: DH10B.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          with BandH and Xhof. Vector: a modified pHHuescript KS(+) after bulk excision from Lambda FLC 1. Cloning sites, 5' end: Sall; \beta
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Rot 185.2. Second strand cDNA was prepared with the primer adapter of sequence (5)
cAMAGAGATPOPCAGTTAANTTAAATTAATCCCCCCCCCCCCCCCT, cDNA was cleaved
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       prepared by using trehalose thermo activated reverse transcriptase and subsequently enriched for full length by capetrapper, cDNA went through one round of normalization to Rot \sim 10.0 and subtraction to
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         bivision of Experimental Animal Research in Riken contributed to prepare mouse tissues. First strand cDNA was primed with a primer
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Exploration Research Group, RIKEN Gemomic Sciences Center (GSC), RIKEN Yokohama Institute; 1 7 Z2 Sachiro cho, Esurumi ku, Yokohama.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Miyazaki.A., Nishi.K., Nomura,K., Numazaki.R., Ohno,M., Okazaki.Y.,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Banadaki, T., Hara, A., Hayatsu, N., Hiramoto, K., Hiraoka, T., Hori, F.,
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         cUNA library was prepared and sequenced in Mouse Genome
Encyclopedia Project of Genome Exploration Research Group in Riken
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Please visit our web site (http://genome.gsc.riken.go.jp/) for
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VIJELKSI NAOOTOOLLRIGOSHPFAIPIMOELFSSTIKG"
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                                                                                               TWNYQPPSKSDGKETTPLLDHLADVSTYMFKGVTNFAKVTSYFKDLPTEDQTSLLKGA
                                                                                                                                 LEPSHFKDFRLPAVFHSGCELPEFLUASILEDPATWSQ LMKDRVPMK LSLQLRGEDGS
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JOURNAL
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    B1252289 489 bp mRNA EST 17-JUL-2001 602953007F1 NIH_M3C_100 Homo sapiens cDNA clone IMAGE:5087401
                                                                                                                                                                                                                                                                                      Contact: Robert Strausberg, Ph.D.
Email: cyapbs-r-mail.nih.qov
                                                                                                                                                                                                                                                                                                                               Unpublished (1999)
                                                                                                                                                                                                                                                                                                                                                                                                               Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia: Eutheria; Primates; Catarrhini; Hominidae; Homo.
                                                                                                                                                                                                                                                                                                                                                                                                                                                        Homo sapiens
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                                                                                                     High quality sequence stop: 489
                                                                                                                                              found through the L.M.A.G.E. Consortium/LLNL at:
http://image.llnl.gov
                                                                                                                                                                                                                                                                                                                                                     National Institutes of Health, Mammalian Gene Collection (MGC)
                                                                                                                                                                                                                                                                                                                                                                           NIH-MGC http://mgc.nci.nih.gov/
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                                                                                                                           Plate: LLCM1844 row: m column: 02
                                                                                                                                                                                                                                                                 Tissue Procurement: CGAP (Stanford)
                                                                                                                                                                                   CDNA Library Preparation: Lind Hong/Rubin Laboratory cDNA Library Arrayed by: The L.M.A.G.E. Consortium (LENL) DNA Sequencing by: Incyte Genomics, Inc. Clone distribution: MGC clone distribution information can be
                                                                                                                                                                                                                                                                                                                                                                                                (bases 1 to 489)
/db_xref="taxon:9606"
/clone="IMAGE:5087401"
                                      /orqanism "Homo sapiens"
                                                                                  Location/Qualitiers
                                                                . 489
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KEYWORDS SOURCE

EST

Bouse mouse

ORGANISM

AUTHORS

Marra,M., Hillier,L., Kucaba,T., Martin,J., Beck,C., Wylic,T., Underwood,K., Steptoe,M., Theising,B., Allen,M., Howers,Y., Person,B., Swaller,T., Gibbons,M., Pape,D., Harvey,N., Schurk,R., Ritter

Mus musculus Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Enteleostomi; Mammalla; Eutheria; Rodentia; Sciorognathi; Muridae; Murinae; Mus 1 (bases 1 to 794)

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Best Local Similarity 96.7%;
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                                                                                                                                                                                                                                                                                                            ul09a10.yl Sugano mouse embryo mewa Mus musculus cDNA clone
IMAGE:2076282 5' similar to TR:054915 054915 PREGNANE X RETEPTOR
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A1746915.1 G1:5125179
                       A1746915
                                         mRNA sequence.
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/lab.host="DH10B (phage-resistant)"
/note:"Organ: liver; Vector: pOTH7: Site_1: Xhoi: Site_2:
EcoRI: cDNA made by oliqo-dT primitiq. Directionally cloned into EcoRI/Xhoi sites using the following 5' adaptor:
GGCACGAGG). Size-selected *500bp for average insert size
1.8kb. Library constructed by Ling Hong in the laboratory of Gerald M. Rubin (University of California, Ferkeley)
using ZAP-cDNA synthesis kit (Stratagene) and Superscript
II RT (Life Technologies). Note: this is a NIH_MGC
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4444 Forest Park Farkway, Box 8501, St. Louis, Mo 64108, USA
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Waterston,R. and Wilson,R.
The WashU Nel Mouse EST Project 1999
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     206
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Dias Noto, E.,
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Mammalia; Entheria; Primates; Catarrhini; Hominidae; Homo.
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Ludwig Institute for Caneer Research
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Contact: Simpson A.J.G.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       (http://www.lndwig.org.br/scripts/getlaml2.pl7tl-cM4st2=CM4-CT0659-
130201-864-d04st3-2001-02-13st4-1)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             This sequence was derived from the FAPESP/LICK Human Cancer Genome Project. This entry can be seen in the following URL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Email: asimpson dudwid.ord.br
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Tel: +55 11 2704922
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, Soares,F., Brentani,R.R., Reis,L.F., de Souza,S.J. and
                                             into the pRC 18 vector. Reverse transcription of timeRNA and cDNA amplification were performed under low stringency conditions."
                                                                                                                            /organism "Homo sapiens"
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Best Local Similarity

18.0%;

Score 443.6; DB 11; Pred. No. 7.7e-73;

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Contact: Robert Strausberg, Ph.D.
Email: cgapbs-rumail.uih.gov
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clone IMAGE:1850687 f similar to gb:J03258 VITAMIN D3 RECEPTOR
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National Cancer Institute, Cancer Genome Anat
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Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo,
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/lab_host-"DH10B (ampicillin resistant)"
/note-"ordan: Liver and Spieen; Vector; pT7T3D (Pharmacia)
/note "ordan: Liver and Spieen; Vector; Site_2: Eco RI;
with a modified polylinker; Site_1: Pac I; Site_2: Eco RI;
This is a subtracted version of the original Soares tetal
liver spleen INFLS library. ist_strand cDNA was primed
                                                                                                                                                                                                                                                                              /dev_stage-"20 week-post conception fetus"
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                                          Konno, H., Akiyama, J., Nishi, K., Kitsunai, T., Tashiro, H., Itoh, M., Sumi, N., Ishir, Y., Nakamura, S., Hazama, M., Nishino, T., Harada, A., Yamamoto, R., Matsunoto, H., Sakapuchi, S., Ikocami, T., Kashikoai, K., Fujiwake, S., Inoue, K., Toqawa, Y., Izawa, M., Dhara, E., Watahiki, M., Yoneda, Y., Ishikawa, T., Ozawa, K., Tataka, T., Matsuura, S., Kawai, J., Okazaki, Y., Muramatsu, M., Inoue, Y., Kira, A., and Hayashizaki, Y., RIKEN integrated sequence analysis (RISA) system 484 format sequencina pipeline with 384 multirapillary sequencer
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Mus masculus 13 days embryo liver cDNA, RIKEN 1uli length enriched
library, clone:2510047D01, tull insert sequence.
                                                                                                                                                                                                                                                                                                                    Normalization and subtraction of cap trapper-selected cDNAs to prepare full-length cDNA libraries for rapid discovery of new genes Genome research. 10 (10), 1617-1640 (2000)
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Shibata,K., Hoh,M., Aizawa,K., Nandoka,S., Sasaki,N., Carminci,P.,
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Division of Experimental Animal Research in Risen contributed to prepare mease tissues. First strand-cDNA was primed with a primer [2] GANAGASAACASATCYAACASTPTETETETTTTTTTTTTTTTTTTTTTTTTA was propared by using trebalose thermo-activated reverse transcriptase and subsequently ouriched for full length by cap-trapper. cDNA went through one round of normalization to ket 5.0 and subtraction to ket 25.0. Second strand cDNA was prepared with the primer adapter of sequence [5]
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Submitted (10 JH, 2000) Yoshibide Hayashizaki, The Institute of
Physical and Chemical Research (RIKEN), Laboratory for Chemine
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Arakawa,T., Carninci,P., Fukuda,S., Fukunishi,Y., Furuno,M.,
Hanastaki,I., Hara,A., Hayatsu,N., Hiramoto,K., Hiraoka,T., Hori,F.,
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RIKEN Yokohama Institute: 1 7 22 Suchiroscho, Tsurumi ku, Yokohama,
Kanasawa 20 0045, Japan (E mail:genome resease, Ekonso)jp,
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Soqabo, Y., Suzuki, H., Tagami, M., Tagawa, A., Takahashi, F.,
Tanaka, T., Tojima, Y., Toya, T., Yamamara, T., Yasurishi, A.,
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Miyazaki,A., Nishi,K., Nomura,K., Numazaki,K., Ohno,M., Okazaki,Y
okido,T., owa,C., Saito,H., Saito,R., Sakai,C., Sakai,K., Samo,H.
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HST07557 similar to Homo sapiens orphan nuclear receptor (PARI)
                                                                                                                                                                                                  78. Construction and characterization of a full length enriched and
a 57 end enriched cDNA library. Gene 200 (1/2), 149-156 (1997).
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Suzuki,Y., Yoshitomo Nakadawa,K., Matuyama,K., Suyama,A. and Sugamo
                                                                                                                                                                                                                                                                                                                                                          Department of Virology
                                                                                                                                                                                                                                                                                                                                                                                  Contact: Yutaka Suzuki
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             121 AGCAAGAGAATAAGCTAATACTCCTGTCCTGAAAAAGGCAGCGGTTCCTTGGTAAAGCTT 180
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61 CTGGGGTCTATGGCGACATACGCACGTTTGLLGGCTLCCTGAGTCTLTTCATTGCTAGCT 120
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AV651714 GLC Homo sapiens cDNA clone GLCCSGU3 37,
AV651714
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Unpublished (2008)
Contact: Zequand Han
Chinese National Human Genome Center at Shanghai
$51 Goo Shoujing Road, Zhangjiang Hi-Tech Park, Pudong, Shanghai
201203, P. R. China
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Qian,B., Wu,T., Huang,Q., Huang,C., Kang,B., Gao,X., Xu,Z., Xiao,t,Xn,X., Li,N., Pend,Y., Liu,F., Qu,J., Song,H., Cheng,Z., Qu,J., Zeng,L., Xu,S., Gn,W., Tu,Y., Jia,J., Pu,G., Ren,S., Zhong,M., Lu,G., Yang,Y., Gu,Y., Chen,Z. and Han,Z.
Homo sapiens cDNA cione
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Email: hanzquehac.sh.en
This clone is available at CHGC in Shanghai.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Fax: 86-21-50801922
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Tel: 86-21:50801919(ex.45)
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                                                                                                                                                                                                                                                                 160
                                                                                                                                                10.4%; Score 222; DH 10; ilarity 100.0%; Pred. No. 2.8e-43; Conservative 0; Mismatches 0;
                                                                                                                                                                                                                                                                                 /lab_host."Solk"
/note-"Vector: pHluescript sk(-); Site_1: Ecok1;
Xhof"
                                                                                                                                                                                                                                                                                                                                      /tissue_type "corresponding non cancerous liver tissue"
/dev_stage="Adult"
                                                                                                                                                                                                                                                                                                                                                                            /clone_"GLCCSG03"
/clone_lib-"GLC"
                                                                                                                                                                                                                                                                                                                                                                                                                    /organism-"Homo sapiens"
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67 GUICTATGCCCACÁTÁCCCACGTTTGTTCGCTTCCTGAGTCTTTTCATTGCTACCTCTAA 126

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Hillier.L., Clark.N., Dubuque.T., Elliston.K., Hawkins.M., Holman.M., Kucaba,T., Lo.M., Loumon.G., Marra.M., Farsons.J., Ritkin.L., Kohlfind.T., Soares.M., Tartyaskis.E., Waterston.
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za25g06.rl Soares tetal liver spleen INFLS Homo sapiens chna cione
image:293626-57, mkna sequence.
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4444 Forest Park Parkway, Hox 8501, St. Louis,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              High quality sequence stop: 416.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Email: est watson.wustl.edu
This clone is available royalty-tree through LLNL ; contact the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Tei: 314 286 1800
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Mammalia: Entheria; Primates; Catarrhini: Hominidae; Homo.
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/note "Gran: Liver and Spicen: Vector: pF7FB) (Pharmacia)
/note "Gran: Vector: Vector: Vector: Vector: Vector: PF7FB) (Pharmacia)
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                                                                                                                                                                                                                                                                                                                                                                             and Eco RI sites of the modified p17T3 vector. Library went through one round of normalization, Library
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/db_xret-"GDB:3801473"
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Score 214.8; DB 11: Length 454;
Pred. No. 1.4e-41;
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                                                                                   AA2/7370 472 bp mikNA EST 01 APK 1597 validata.it Source mouse NML Mus musculus china chine LMAGE:737758
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GelsetzS., Kueubajl, Laey,M., LezM., Marthn.J., MortiszM.,
Sehellenberg,K., StephnezM., FanzE., Huderwood,K., Moore,H.,
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Contact: Marra MZMouse ESI Project
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        This clone is available royalty-tree through LLNL; contact the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Washington University School of Medicines
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Washington University Genome Sequencing Center
Clone distribution: Xenopus clones from this library are available
through the RessourcenZentrumPrimarDatenbank. Berlin, Germany (web
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          High quality sequence stop: 418
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Email: estawatson.wustl.edu
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                4444 Forest Park Parkway, Box 8501, St. Louis, Mo 63108, USA
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Washington University School of Medicine
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Library constructed by B. Korn PhD. and S. Henze DNA Sequencing by:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Xenopodinae; Xenopus.
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                                              Anote "Vector: pcMVSP0RT6; Site 1: NoII; Site_2: Sall: Method of cloning used: directed ligation; insertCheck: 95.8 blue and 4.2 white. Library constructed by In. 65.8 blue and 4.2 white. Library constructed by In. 65.8 blue and 4.2 white. Henze, Note: This is a Xemopus
                                                                                                                                                                                                                          /tissue type "whole tadpole"
/dev_stage "stage 24"
/tab_host "DB108"
Gene Collection (XGC) library."
                                                                                                                                                                                                                                                                                                                                                                                                                                                     /organism "Xenopus laevis"
/db xref "taxon:835"
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Hillier, L. Allen, M., Bowles, L., Dubuque, T., Geisel, G., Jost, S.,

Krizman, D., Kucaba, I., Lacy, M., Le, N., Lennon, G., Marra, M., Martin
J., Moore, B., Schollenberg, K., Steptoe, M., Tan, F., Theising, B.,

White, Y., Wylie, I., Waterston, R. and Wilson, R.

Washur, NCI human EST Project
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                              This clone is available royalty-free through LLNL; contact the IMAGE Consortium (info*image.llnl.gov) for further information. Possible reversed clone: similarity on wrong strand Seq.primer: -40ml3 fwd. ET from Amersham
                                                                                                                                                                                                                                                                                             Washington University School of Medicine 4444 Forest Park Parkway, Box 8501, St. Louis, Mo 63108 Tel: 314-286-1800
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                                                                                                                                                                                                                  Email: est/watson.wustl.edu
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                                                                                                                                                           Genomics Laboratory
Helix Research Institute
1532+4 Yana, Kisarazu, Chiba
Tel: 81-448-52-3951
Fax: 81-448-52-3952
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Email: denomics:hri.co.jp

HRI human cDNA project: 5'- & 3'-end one pass sequencing: Helix
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National cancer Institute, Cancer Genome Anatomy Project (CGAP),
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          AW511148
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Email: eqapbs r mail.nih.gov
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Tumor Gene Index
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Equal amounts of plasmid DNA from three normalized libraries (tetal long MBHL)99, testis NHC, and B cell NCL_CVAP_GCB1) were mixed, and secticles were made in vitro. Following HAP purification, this DNA was used as tracer in a subtractive hybridization reaction. The driver was PCR amplified cDNAs from pools of $0.000 clones made from the same of libraries. The pools consisted of LMA_AGLE, clones 297480 302087, 682642 687249, 726408-728711, and 729096-731499, Subtraction by Bento Soares and M. Fathma Benaddo. **
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          /note "organ: pooled: Vector: pT7T4D Fac (Pharmacia) with
a modified polylinker: Site 1: Not 1: Site 2: Eco R1;
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/lab host "DH10R"
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Zclone "IMAGE:2910224"
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Search completed: March
Job time: 1736 sec
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Matches 184; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Query Match 7.7%;
Best Local Similarity 85.6%;
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                                                                                                                  467 tcatqacatqlqaaqqalqcaaqqqctftttcaqqaqqqccatqaaacqcaacqcccqqc 526
                                                                                                                                                                                                                                                                                                                                     527 (qaqqtqeccettecqqaaqqqeqectgogagateqoccqqaaqqeccqqcqacaqtgcc 586
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                                                                                                                                                                                                                                                                                                                                                                                                             1 TOO! GACCOGTGCAGGATGCAUGUCCTTTTTCAUCAGGCCCCTGACACACAATGTCCGGC 60
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Carninci,P., Shibata,K., Ozawa,Y., Konno,H., Itoh,M., Aizawa,K., Akihira,S., Akiyama,J., Fukuda,S., Fukunishi,Y., Funayama,T., Hara,A., Hayaftu,N., Hori,F., Ishikawa,T., Itoh,M., Itawa,M., Kawai,J., Kikuchi,N., Kojima,Y., Matsuyama,T., Niitsuma,H., Oda,H., Owa,C., Shichi,Y., Shiqomoto,Y., Shiraki,T., Soqaho,Y., Sugahara,Y., Shibata,Y., Shiqomoto,Y., Shiraki,T., Soqaho,Y., Sugahara,Y., Suzuki,H., Tatoho,M., Tomaru,Y., Tomaru,Y., Johno,M., Walanabe,S., Yaqamo,M., Yamamura,T., Yokota,T., Yoshino,M., Murandisu,M., Okazaki,Y., and Hayashizaki,Y.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Email: genome-resisteriken.go.jp
Thermostabilization and thermoactivation of thermolabile enzymes by trehalose and its application for the synthesis of full length cDNA (Proc. Natl. Acad. Sci. U.S.A. 95(2):520-524 (1998))
Transcriptional sequencing: A method for DNA sequencing using RNA polymerase (Proc. Natl. Acad. Sci. U.S.A. 95(7):4455-3460 (1998))
Please visit our web site (http://genome.rtc.riken.go.jp) for
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            RIKEN
3-1-1 Koyadai, Tsukuba, Ibaraki 305-0074, Japan
Tel: 81-298-36-9145
Fax: 81-298-36-9098
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AV108557
AV108557.1 G1:5256105
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Confact: Chie Owa
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Mammalia: Entheria: Rodentia: Sciurognathi: Muridae: Murinae: Mus
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/clone="2510047D01"
/clone_lib:"Mus musculus liver C57BL/6J 13-day embryo"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      /organism "Mus musculus"
/strain "C57BL/6J"
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                        2, 2002, 01:13:25
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